

AUTHOR LISTING

A

Abe, S. see Tanaka, M., 31:1709
Abe, T., Brown, J. B., and Brechue, W. F. Architectural characteristics of muscle in black and white college football players, 31:1448
Abraham, E. Book Review, 31:1231, 31:1490, 31:921
Acevedo, E. O., Dziewaltowski, D. A., Kubitz, K. A., and Kraemer, R. R. Effects of a proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460
Ahmaidi, S., Comte, D., Topin, N., Hayot, M., Delanaud, S., Ramonatxo, M., His, N., Vardon, G., Freville, M., Libert, J. P., and Préfaut, C. Reliability of a new device to assess the oxygen consumption of human respiratory muscles, 31:1076
Ainsworth, B. E. see Crespo, C. J., 31:1821
Akazawa, K. see Tanaka, M., 31:1709
Akima, H., Takahashi, H., Kuno, S.-Y., Masuda, K., Masuda, T., Shimojo, H., Anno, I., Itai, Y., and Katsuta, S. Early phase adaptations of muscle use and strength to isokinetic training, 31:588
Albrecht, A. see Engebretson, T. O., 31:216
Alessandri, L. see Di Bello, V., 31:514
Alfieri, N. see Grazi, G., 31:1478
Allison, J. see Owens, S., 31:143
Almeida, S. A., Trone, D. W., Leone, D. M., Shaffer, R. A., Patheal, S. L., and Long, K. Gender differences in musculoskeletal injury rates: a function of symptom reporting?, 31:1807
Almeida, S. A., Williams, K. M., Shaffer, R. A., and Brodine, S. K. Epidemiological patterns of musculoskeletal injuries and physical training, 31:1176
Almekinders, L. C., and Temple, J. D. Response to Letter, 31:353
Aminian, K. see Herren, R., 31:1053
Anderson, S. J. Book Review, 31:1359
Andres, F. A. see Merrick, M. A., 31:1516
Angelucci, J. see Kang, J., 31:1453
Angenot, E. L. D. see Dallmeijer, A. J., 31:1111
Anish, E. J. Book Review, 31:1353, 31:1880
Anno, I. see Akima, H., 31:588
Anooshravani, M., Dumont, L., Mardirosoff, C., Soto-Debeuf, G., and Delavelle, J. Brain magnetic resonance imaging (MRI) and neurological changes after a single high altitude climb, 31:969
Ansalone, G. see Biffi, A., 31:359
Anselme-Poujol, F. see Mucci, P., 31:507
Arngrimsson, S. A. see Evans, E. M., 31:1778
Asakuma, S., Fujiwara, M., Ohyanagi, M., and Iwasaki, T. A simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52
Astrup, A. Physical activity and weight gain and fat distribution changes with

menopause: current evidence and research issues, 31:S564
Audran, M., Gareau, R., Matecki, S., Durand, F., Chenard, C., Sicart, M.-T., Marion, B., and Bressole, F. Effects of erythropoietin administration in training athletes and possible indirect detection in doping control, 31:639
Awiszus, F. see Urbach, D., 31:1691
Axe, M. J. see Eastlack, M. E., 31:210

B

Baas, H. see Reuter, I., 31:1544
Babb, T. G. Mechanical ventilatory constraints in aging, lung disease, and obesity: perspectives and brief review, 31:S12
Baca, A. A comparison of methods for analyzing drop jump performance, 31:437
Bacharach, D. W. see Gaskill, S. E., 31:1211
Bachl, N. see Pokan, R., 31:903
Backx, F. J. G. see Peters, H. P. F., 31:767
Baer, J. T. see Case, D., 31:1390
Baker-Fulco, C. J. see O'Brien, C., 31:1466
Balady, G. J. Response to Letter, 31:354
Baldari, C. see di Luigi, L., 31:1748
Bandrés, F. see Lucia, A., 31:1414
Baranowski, J. see Baranowski, T., 31:1619
Baranowski, T., Smith, M., Thompson, W. O., Baranowski, J., Hebert, D., and de Moor, C. Intraindividual variability and reliability in a 7-day exercise record, 31:1619
Barbier, B. see Candau, R. B., 31:1441
Barclay, J. K. see Frisbee, J. C., 31:1293
Barmada, R. Book Review, 31:1230, 31:1880
Baron, R. see Pokan, R., 31:903
Bar-Or, O. see Kriemler, S., 31:774
Bar-Or, O. see Unnithan, V. B., 31:1703
Barr, S. I. see Petit, M. A., 31:780
Barrier, J. see Kovács, I., 31:708
Bartolozzi, A. R., III see Safran, M. R., 31:S429, 31:S438
Bärtsch, P. see Strobel, G., 31:560
Bärtsch, P. High altitude pulmonary edema, 31:S23
Bassett, D. R., Jr., Kyle, C. R., Passfield, L., Broke, J. P., and Burke, E. R. Comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665
Batelaan, J. H. see Ridderikhoff, A., 31:1196
Bates, B. T. see Stergiou, N., 31:1645
Batterham, A. see Vanderburgh, P. M., 31:1869
Baum, K., Hoy, S., Fischer, F., Leyk, D., Schmidt, O., and Efeld, D. Comparison between the physiological response to roller skiing and in-line skating in biathletes, 31:595
Bauman, A. see Gore, C. J., 31:348
Bayliss, G. V. see Webster, D. A., 31:938
Beck, K. C. Control of airway function during and after exercise in asthmatics, 31:S4
Becker, S. Book Review, 31:624
Beckett, T. see Toth, M. J., 31:S590
Beering, T. V. see Powers, C. M., 31:1714
Beissel, J. see Delagardelle, C., 31:1102
Beitman, L. see Swensen, T. C., 31:742
Belli, A. R. see Candau, R. B., 31:1441
Bemben, M. G. see Thompson, C. J., 31:897
Benedetti, R. S. see Safran, M. R., 31:S429, 31:S438
Beneke, R. see Jordan, J., 31:362
Bennell, K. L. see Crossley, K., 31:1088
Bennell, K. L. see Warden, S. J., 31:1656
Berg, H. E., and Eiken, O. Muscle control in elite alpine skiing, 31:1065
Bernal, H. see Schmidt, W., 31:1406
Berthouze, S. E. see Kostka, T., 31:1183
Bertini, A. see Di Bello, V., 31:514
Beunen, G., Malina, R. M., Claessens, A. L., Lefevre, J., and Thomis, M. Ulnar variance and skeletal maturity of radius and ulna in female gymnasts, 31:653
Bhambhani, Y., Buckley, S., and Susaki, T. Muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90
Bianchi, M. see Di Bello, V., 31:514
Biffi, A., Verdile, L., Ansalone, G., Spataro, A., Spada, R., Fernando, F., Caselli, G., and Santini, M. Lack of correlation between ventricular late potentials and left ventricular mass in top-level male athletes, 31:359
Bifulco, G. see Testa, V., 31:1509
Billat, V. L., Flechet, B., Petit, B., Muriaux, G., and Koralsztajn, J.-P. Interval training at $\dot{V}O_{2max}$: effects on aerobic performance and overtraining markers, 31:156
Bishop, D., Jenkins, D. G., Mackinnon, L. T., McEniery, M., and Carey, M. F. The effects of strength training on endurance performance and muscle characteristics, 31:886
Blackard, D. O., Jensen, R. L., and Ebben, W. P. Use of EMG analysis in challenging kinetic chain terminology, 31:443
Blackburn, G. see Grundy, S. M., 31:1493, 31:S502
Blair, A. see Zahm, S. H., 31:566
Blair, S. N. see Bouchard, C., 31:S498
Blair, S. N. see Taylor, W. C., 31:118
Blair, S. N. see Whaley, M. H., 31:287
Blair, S. N., and Bouchard, C. Physical Activity and Obesity: American College of Sports Medicine Consensus Conference, 31:S497
Blair, S. N., and Brodney, S. Effects of physical inactivity and obesity on morbidity and mortality: current evidence and research issues, 31:S646
Blanton, C. see Pratt, M., 31:S526

- Blundell, J. E., and King, N. A. Physical activity and regulation of food intake: current evidence, 31:S573
- Boas, S. R., Danduran, M. J., and McColley, S. A. Energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242
- Bobbert, M. F. see Ridderikhoff, A., 31:1196
- Bobbert, M. F., and van Zandwijk, J. P. Dynamics of force and muscle stimulation in human vertical jumping, 31:303
- Bodary, P. F., Pate, R. R., Wu, Q. F., and McMillan, G. S. Effects of acute exercise on plasma erythropoietin levels in trained runners, 31:543
- Bode, S. D. see Eisner, W. D., 31:449
- Boesch, C. see Kamber, M., 31:1763
- Boesch, C. see Kreis, R., 31:1770
- Bol, E. see Peters, H. P. F., 31:767
- Bolster, D. R., Trappe, S. W., Short, K. R., Scheffeld-Moore, M., Parcell, A. C., Schulze, K. M., and Costill, D. L. Effects of precooling on thermoregulation during subsequent exercise, 31:251
- Böning, D. see Schmidt, W., 31:1406
- Bonnefoy, M. see Kostka, T., 31:1183
- Boobis, L. see Nicholas, C. W., 31:1280
- Boose, A. see Mayer, F., 31:1085
- Booth, M. L. see Gore, C. J., 31:348
- Boraita, A. see Lucia, A., 31:1414
- Borsetto, C. see Grazi, G., 31:1478
- Bersheim, E., Knardahl, S., and Høstmark, A. T. Short-term effects of exercise on plasma very low density lipoproteins (VLDL) and fatty acids, 31:522
- Bosch, A. N. see Schabert, E. J., 31:464
- Boswell, D. R. see Speedy, D. B., 31:809
- Bouchard, C. see Blair, S. N., 31:S497
- Bouchard, C. see Rivera, M. A., 31:698
- Bouchard, C. see Skinner, J. S., 31:1623
- Bouchard, C. see St-Amand, J., 31:692
- Bouchard, C. see Stanforth, P. R., 31:183
- Bouchard, C., and Blair, S. N. Introductory comments to the consensus on physical activity and obesity, 31:S498
- Bourgeois, J., MacDougall, D., MacDonald, J., and Tarnopolsky, M. Naproxen does not alter indices of muscle damage in resistance-exercise trained men, 31:4
- Boussana, A. see Hue, O., 31:1422
- Boutellier, U. see Rico-Sanz, J., 31:1580, 31:1587
- Bowen, D. see McTiernan, A., 31:1307
- Bowling, J. M. see Weaver, N. L., 31:176
- Braddock, D. see Rimmer, J. H., 31:613
- Branch, J. D. see Liedl, M. A., 31:1472
- Branch, J. D. see Wright, R. L., 31:1793
- Brechue, W. F. see Abe, T., 31:1448
- Brenner, I. K. M., Wolfe, L. A., Monga, M., and McGrath, M. J. Physical conditioning effects on fetal heart rate responses to graded maternal exercise, 31:792
- Bressole, F. see Audran, M., 31:639
- Brice, G. see Haug, R. C., 31:619
- Brindle, T. J., Nyland, J., Shapiro, R., Caborn, D. N. M., and Stine, R. Shoulder proprioception: latent muscle reaction times, 31:1394
- Brittain, M. see MacDougall, J. D., 31:1876
- Brodine, S. K. see Almeida, S. A., 31:1176
- Brodney, S. see Blair, S. N., 31:S646
- Broker, J. see Foster, C., 31:1433
- Broker, J. P. see Bassett, D. R., Jr., 31:1665
- Broker, J. P., Kyle, C. R., and Burke, E. R. Racing cyclist power requirements in the 4000-m individual and team pursuits, 31:1677
- Broomhead, S.-A. see Gibson, A. S. C., 31:1226
- Brown, J. B. see Abe, T., 31:1448
- Browne, A., Lachance, V., and Pipe, A. The ethics of blood testing as an element of doping control in sport, 31:497
- Brust, J. D. see Roberts, W. O., 31:46
- Bucci, L. see Wallace, M. B., 31:1788
- Buchli, R. see Rico-Sanz, J., 31:1580, 31:1587
- Buck, D., and McNaughton, L. Maximal accumulated oxygen deficit must be calculated using 10-min time periods, 31:1346
- Buckley, J. P., Davis, J. A. S., and Simpson, T. Cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721
- Buckley, S. see Bhamhani, Y., 31:90
- Bullen, B. A. see Williams, N. I., 31:949
- Burke, E. R. see Bassett, D. R., Jr., 31:1665
- Burke, E. R. see Broker, J. P., 31:1677
- Burke, J. R. see Leong, B., 31:1638
- Burke, L. M. see Hopkins, W. G., 31:472, 31:756
- Burns, S. P. see Lox, C. L., 31:1060
- Bush, J. A. see Kraemer, W. J., 31:1320
- Bush, J. A., Kraemer, W. J., Mastro, A. M., Triplett-McBride, N. T., Volek, J. S., Putukian, M., Sebastianelli, W. J., and Knutt, H. G. Exercise and recovery responses of adrenal medullary neurohormones to heavy resistance exercise, 31:554
- Butterfield, G. E. see DeMarco, H. M., 31:164
- Butterfield, G. E. see Gaesser, G. A., 31:917

C

- Caborn, D. N. M. see Brindle, T. J., 31:1394
- Caborn, D. N. M. see Eisner, W. D., 31:449
- Caillaud, C. see Mucci, P., 31:507
- Caird, S. J., McKenzie, A. D., and Sleivert, G. G. Biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717
- Calders, P., Matthys, D., Derave, W., and Pannier, J.-L. Effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583
- Caldwell, T. M. see Libonati, J. R., 31:258
- Calfas, K. J. see Nichols, J. F., 31:908
- Campbell, C. S. see Lauder, T. D., 31:1265
- Campbell, I. G. see Tolfrey, K., 31:1550
- Campbell, R. G. D. see Speedy, D. B., 31:809
- Candau, R. B., Grappe, F., Ménard, M., Barbier, B., Millet, G. Y., Hoffman, M. D., Belli, A. R., and Rouillon, J. D. Simplified deceleration method for assessment of resistive forces in cycling, 31:1441
- Cannon, D. W. see McCrory, J. L., 31:1374
- Canny, B. J. see McConell, G. K., 31:386
- Cantor, K. P. see Zahm, S. H., 31:566
- Capasso, G. see Testa, V., 31:1509
- Capriotti, P. V., Sherman, W. M., and Lamb, D. R. Reliability of power output during intermittent high-intensity cycling, 31:913
- Caputo, M. T. see Di Bello, V., 31:514
- Card, N. see Warburton, D. E. R., 31:800
- Cardinal, B. J. ACSM/AHA Joint Position Statement, 31:353
- Carey, G. B. see Quinn, T. J., 31:105
- Carey, M. F. see Bishop, D., 31:886
- Carlton, L. G. see Chow, J. W., 31:846, 31:855
- Carpenter, D. M., and Nelson, B. W. Low back strengthening for the prevention and treatment of low back pain, 31:18
- Carpinelli, R. N. see Winett, R. A., 31:916
- Carter, H. see Jones, A. M., 31:1299
- Carter, H., Jones, A. M., and Doust, J. H. Effect of incremental test protocol on the lactate minimum speed, 31:837
- Carter, R. N. see Oosthuysen, T., 31:670
- Casas, H. see Rodriguez, F. A., 31:264
- Casas, M. see Rodriguez, F. A., 31:264
- Case, D., Baer, J. T., and Subbiah, M. T. R. The effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390
- Caselli, G. see Biffi, A., 31:359
- Casini, A. see di Luigi, L., 31:1748
- Casoni, I. see Grazi, G., 31:1478
- Cavaghan, M. Book Review, 31:1230
- Ceddia, M. A., Price, E. A., Kohlmeier, C. K., Evans, J. K., Lu, Q., McAuley, E., and Woods, J. A. Differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829
- Cerullo, J. F. see McCaw, S. T., 31:702
- Chae, W.-S. see Chow, J. W., 31:846, 31:855
- Chaloupka, E. C. see Kang, J., 31:1453
- Chan, C.-W. see Qin, L., 31:502
- Chan, R.-C. see Penn, I.-W., 31:1834
- Chapman, R. F., Emery, M., and Stager, J. M. Degree of arterial desaturation in normoxia influences $\dot{V}O_{2max}$ decline in mild hypoxia, 31:658
- Chassay, C. M. see Sallis, R., 31:1367
- Chen, H.-I. see Lin, Y.-S., 31:1594
- Chen, S.-Y. see Lan, C., 31:634
- Chenard, C. see Audran, M., 31:639
- Chicharro, J. L. see Lucia, A., 31:1414
- Chollet, D. see Hue, O., 31:1422
- Chollet, D. see Pelayo, P., 31:1839
- Chow, J. W., Carlton, L. G., Chae, W.-S., Shim, J.-H., Lim, Y.-T., and Kuenster, A. F. Movement characteristics of the tennis volley, 31:855
- Chow, J. W., Carlton, L. G., Lim, Y.-T., Shim, J.-H., Chae, W.-S., and Kuenster, A. F. Muscle activation during the tennis volley, 31:846
- Chow, J. W., and Mindock, L. A. Discuss throwing performances and medical classification of wheelchair athletes, 31:1272
- Chrousos, G. P. see Singh, A., 31:536
- Chuang, T.-Y. see Penn, I.-W., 31:1834
- Chung, S.-C., Goldfarb, A. H., Jamurtas, A. Z., Hegde, S. S., and Lee, J. Effect of exercise during the follicular and luteal phases on indices of oxidative stress in healthy women, 31:409
- Cisar, C. J. see DeMarco, H. M., 31:164
- Claessens, A. L. see Beunen, G., 31:653

Clancy, R. L. see Gleeson, M., 31:67
 Clark, A. L. see Terkelsen, K. E., 31:1429
 Clark, K. L. see Kraemer, W. J., 31:1320
 Clark, M. M. see Engebretson, T. O., 31:216
 Clarkson, P. M. see Sayers, S. P., 31:1697
 Climstein, M. see Raymond, J., 31:822
 Colby, A. M. see Libonati, J. R., 31:258
 Colditz, G. A. Economic costs of obesity and inactivity, 31:S663
 Collins, M. A. see Modlesky, C. M., 31:1861
 Collins, M. A., Millard-Stafford, M. L., Sparling, P. B., Snow, T. K., Rosskopf, L. B., Webb, S. A., and Omer, J. Evaluation of the BOD POD® for assessing body fat in collegiate football players, 31:1350
 Comte, D. see Ahmaidi, S., 31:1076
 Conconi, F. see Grazi, G., 31:1478
 Coombes, J. see Vrabas, I. S., 31:1605
 Cooper, C. S. see Taaffe, D. R., 31:1484
 Cooper, M. E., and Wolin, P. M. Os trigonum syndrome with flexor hallucis longus tenosynovitis in a professional football referee, 31:S493
 Costa, K. see Hawkins, S. A., 31:1287
 Costill, D. L. see Bolster, D. R., 31:251
 Couret, I. see Mucci, P., 31:507
 Coutts, K. D. see McKenzie, D. C., 31:99
 Covey, M. K., Larson, J. L., and Wirtz, S. Reliability of submaximal exercise tests in patients with COPD, 31:1257
 Craven, T. see McCrory, J. L., 31:1374
 Crespo, C. J., Ainsworth, B. E., Keteyian, S. J., Heath, G. W., and Smit, E. Prevalence of physical inactivity and its relation to social class in U.S. adults: results from the Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821
 Cripps, A. W. see Gleeson, M., 31:67
 Croce, R. see Horvat, M., 31:1190
 Crossley, K., Bennell, K. L., Wrigley, T., and Oakes, B. W. Ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088
 Crues, J. V. see Shellock, F. G., 31:788
 Cuesta, G. see Padilla, S., 31:878
 Cummings, S. S. see Taylor, W. C., 31:118
 Cunningham, D. A. see Paterson, D. H., 31:1813
 Cunningham, D. A. see Petrella, R. J., 31:1163
 Cureton, K. J. see Evans, E. M., 31:1778
 Cureton, K. J. see Modlesky, C. M., 31:1861
 Curl, W. W. see McCrory, J. L., 31:1374
 Cutler, A. see Wallace, M. B., 31:1788

D

Dale, K. S., and Landers, D. M. Weight control in wrestling: eating disorders or disordered eating?, 31:1382
 Dallmeijer, A. J. see van der Woude, L. H. V., 31:331
 Dallmeijer, A. J., van der Woude, L. H. V., Hollander, A. P., and van As, H. H. J. Physical performance during rehabilitation in persons with spinal cord injuries, 31:1330
 Dallmeijer, A. J., van der Woude, L. H. V., Hollander, A. P. A., and Angenot, E. L. D. Physical performance in persons

with spinal cord injuries after discharge from rehabilitation, 31:1111
 Dalsky, G. P. see Fehling, P. C., 31:171
 Daly, L. see Digenio, A. G., 31:1094, 31:942
 Dambach, M. see Rico-Sanz, J., 31:1587
 Danduran, M. J. see Boas, S. R., 31:1242
 Dasilva, S. G. see Kang, J., 31:82
 Davis, G. D. see Lauder, T. D., 31:1265
 Davis, G. M. see Raymond, J., 31:822
 Davis, J. see Peterson, A. T., 31:1844
 Davis, J. A. S. see Buckley, J. P., 31:1721
 Davis, J. M. see Woods, J. A., 31:57
 Daw, E. W. see Skinner, J. S., 31:1623
 de Bourdeaudhuij, I., and van Oost, P. A cluster-analytical approach toward physical activity and other health related behaviors, 31:605
 DeFronzo, R. A. see Koval, J. A., 31:998
 Delagardelle, C., Feiereisen, P., Krecké, R., Essamri, B., and Beissel, J. Objective effects of a 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102
 Delanaud, S. see Ahmaidi, S., 31:1076
 Delavelle, J. see Anooshiravani, M., 31:969
 Delgado, J. see Molano, F., 31:243
 Delp, M. D. Control of skeletal muscle perfusion at the onset of dynamic exercise, 31:1011
 DeMarco, H. M., Sucher, K. P., Cisar, C. J., and Butterfield, G. E. Pre-exercise carbohydrate meals: application of glycemic index, 31:164
 Demirel, H. see Vrabas, I. S., 31:1605
 de Moor, C. see Baranowski, T., 31:1619
 Denegar, C. R. see Hertel, J., 31:1501
 Dennis, S. C. see Stepto, N. K., 31:736
 Derave, W. see Calders, P., 31:583
 Deschenes, M. R., and Ogilvie, R. W. Exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599
 DeSilvestre, G. A. Book Review, 31:1689
 Després, J.-P. see St-Amand, J., 31:692
 Deuster, P. A. see Singh, A., 31:536
 Deuster, P. A., Zelazowska, E. B., Singh, A., and Sternberg, E. M. Expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799
 Deutsch, A. L. see Horrigan, J. M., 31:1361
 Devita, P. see Kovács, I., 31:708
 de Vries, W. R. see Peters, H. P. F., 31:767
 Di Bello, V., Giorgi, D., Bianchi, M., Bertini, A., Caputo, M. T., Valenti, G., Furioso, O., Alessandri, L., Paterni, M., and Giusti, C. Effects of anabolic-androgenic steroids on weight-lifters' myocardium: an ultrasonic videodensitometric study, 31:514
 Dickhuth, H. H. see Mayer, F., 31:1085
 Dickinson, B. P. see Rich, J. D., 31:207
 DiFiori, J. P. Stress fracture of the proximal fibula in a young soccer player: a case report and a review of the literature, 31:925
 Digenio, A. G., Noakes, T. D., Joughin, H., and Daly, L. Effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094
 Digenio, A. G., Noakes, T. D., Joughin, H., and Daly, L. Ventilatory responses to

exercise in patients with asymptomatic left ventricular dysfunction, 31:942
 di Luigi, L., Guidetti, L., Pigozzi, F., Baldari, C., Casini, A., Nordio, M., and Romanelli, F. Acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748
 Dionne, F. T. see Rivera, M. A., 31:698
 DiPietro, L. Physical activity in the prevention of obesity: current evidence and research issues, 31:S542
 Disler, D. G. Book Review, 31:625
 Djupsjöbacka, M. see Pedersen, J., 31:1047
 Dodd, S. L. see Vrabas, I. S., 31:1605
 Dosemeci, M. see Zahm, S. H., 31:566
 Douglas, P. S. see O'Toole, M. L., 31:372
 Doust, J. H. see Carter, H., 31:837
 Doust, J. H. see Jones, A. M., 31:1299
 Dowling, J. J. see Unnithan, V. B., 31:1703
 Drace, J. E. see Sheehan, F. T., 31:1399
 Draheim, C. C., Laurie, N. E., McCubbin, J. A., and Perkins, J. L. Validity of a modified aerobic fitness test for adults with mental retardation, 31:1849
 Drapeau, V. see Tremblay, A., 31:S584
 Dréano, P. see Hausswirth, C., 31:599
 Drewlinger, D. M. Book Review, 31:494
 Dubach, P. see Myers, J., 31:929
 Dumont, L. see Anooshiravani, M., 31:969
 Duncan, N. D. see Volek, J. S., 31:1147
 Dunstheimer, D. see Hebestreit, H., 31:1218
 Dunton, N. J. see Virk, R. S., 31:400
 Durand, F. see Audran, M., 31:639
 Duret, C. see Taaffe, D. R., 31:1484
 Dzewaltowski, D. A. see Acevedo, E. O., 31:1460
 Dziekan, G. see Myers, J., 31:929

E

Eastlack, M. E., Axe, M. J., and Snyder-Mackler, L. Laxity, instability, and functional outcome after ACL injury: copers versus noncopers, 31:210
 Ebbeling, C. B., and Rodriguez, N. R. Effects of exercise combined with diet therapy on protein utilization in obese children, 31:378
 Ebben, W. P. see Blackard, D. O., 31:443
 Efeld, D. see Baum, K., 31:595
 Eiken, O. see Berg, H. E., 31:1065
 Eisner, W. D., Bode, S. D., Nyland, J., and Caborn, D. N. M. Electromyographic timing analysis of forward and backward cycling, 31:449
 Ellestad, A. J. see Foster, C., 31:1157
 Elliott, J. A. see Youngstedt, S. D., 31:864
 Emery, M. see Chapman, R. F., 31:658
 Engebretson, T. O., Clark, M. M., Niaura, R. S., Phillips, T., Albrecht, A., and Tilkemeier, P. Quality of life and anxiety in a phase II cardiac rehabilitation program, 31:216
 Engelhardt, M. see Reuter, I., 31:1544
 Epstein, L. H., and Goldfield, G. S. Physical activity in the treatment of childhood overweight and obesity: current evidence and research issues, 31:S553
 Epstein, Y., Moran, D. S., Shapiro, Y., Sohar, E., and Shemer, J. Exertional heat stroke: a case series, 31:224
 Eriksson, A. see Kadl, F., 31:1528
 Essamri, B. see Delagardelle, C., 31:1102

Ettinger, W. H., Jr. see Martin, K. A., 31: 627
Evans, E. M. see Modlesky, C. M., 31: 1861
Evans, E. M., Saunders, M. J., Spano, M. A., Arnggrimson, S. A., Lewis, R. D., and Cureton, K. J. Effects of diet and exercise on the density and composition of the fat-free mass in obese women, 31: 1778
Evans, J. K. see Ceddia, M. A., 31:829
Evans, W. J. see Pollock, M. J., 31:10
Evans, W. J. Exercise training guidelines for the elderly, 31:12

F

Fagard, R. H. Physical activity in the prevention and treatment of hypertension in the obese, 31:S624
Fehling, P. C., Smith, D. L., Warner, S. E., and Dalsky, G. P. Comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171
Feiereisen, P. see Delagardelle, C., 31: 1102
Feigenbaum, M. S., and Pollock, M. L. Prescription of resistance training for health and disease, 31:38
Felblinger, J. see Kreis, R., 31:1770
Ferguson, M. see Owens, S., 31:143
Ferguson, S. see Wiebe, C. G., 31:684
Fernando, F. see Biffi, A., 31:359
Fernhall, B. see Horvat, M., 31:1190
Ferrington, D. A. see Hayward, R., 31:414
Fink, W. J. see Volek, J. S., 31:1147
Fischer, F. see Baum, K., 31:595
Fitzgerald, D. J. see Foster, C., 31:1157, 31:578
Fixler, D. E. see Garcia, J. A., 31:269
Flanigan, T. P. see Rich, J. D., 31:207
Flechet, B. see Billat, V. L., 31:156
Flegal, K. M. The obesity epidemic in children and adults: current evidence and research issues, 31:S509
Fletcher, L. see Vrabas, I. S., 31:1605
Fletcher, M. A. see Perna, F. M., 31:973
Focht, B. C., and Koltyn, K. F. Influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456
Fogelholm, M. see Rissanen, A., 31:S635
Fogelholm, M., and Hiilloskorpi, H. Weight and diet concerns in Finnish female and male athletes, 31:229
Fortney Schneider, S. M. see Lee, S. M. C., 31:1755
Foster, C. see Peterson, A. T., 31:1844
Foster, C., Fitzgerald, D. J., and Spatz, P. Stability of the blood lactate-heart rate relationship in competitive athletes, 31:578
Foster, C., Mayer, K., Georgakopoulos, N., Ellestad, A. J., Fitzgerald, D. J., Tilman, K., Weinstein, H., Young, H., and Roskamm, H. Left ventricular function during interval and steady state exercise, 31:1157
Foster, C., Rundell, K. W., Snyder, A. C., Stray-Gundersen, J., Kemkers, G., Thometz, N., Broker, J., and Knapp, E. Evidence for restricted muscle blood flow during speed skating, 31:1433
Francaux, M. see Poortmans, J. R., 31: 1108
Francis, J. L. see Gleeson, M., 31:67
Frank, K. see Haltom, R. W., 31:1613

Freedson, P. S. see Matthews, C. E., 31: 486
Freidmann, B. see Strobel, G., 31:560
Freville, M. see Ahmaidi, S., 31:1076
Fricke, P. A. see Gleeson, M., 31:67
Frisbee, J. C., Murrant, C. L., Wilson, B. A., and Barclay, J. K. Polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293
Frisch, F., and Sumida, K. D. Temporal effects of testosterone propionate injections on serum lipoprotein concentrations in rats, 31:664
Fritsch-Yelle, J. M. see Lee, S. M. C., 31: 1755
Frost, G. see Unnithan, V. B., 31:1703
Frykman, P. N. see Sayers, S. P., 31:572
Fu, F. H. see Safran, M. R., 31:S487
Fu, L.-K. see Qin, L., 31:502
Fujiwara, M. see Asakuma, S., 31:52
Furioso, O. see Di Bello, V., 31:514

G

Gabriel, H. H. W. see Meyer, T., 31:1342
Gächter, A. see Kuster, M. S., 31:368
Gaesser, G. A. Thinness and weight loss: beneficial or detrimental to longevity?, 31: 1118
Gaesser, G. A., Butterfield, G. E., Powers, S. K., and Kraemer, W. J. Response to Letter, 31:917
Gagnon, J. see Rivera, M. A., 31:698
Gagnon, J. see Skinner, J. S., 31:1623
Gagnon, J. see Stanforth, P. R., 31:183
Gallagher, K. M. see Smith, S. A., 31:277
Ganion, L. R. see Gehlsen, G. M., 31:531
Garcia, J. A., McCinn, S. B., Zuckerman, J. H., Fixler, D. E., and Levine, B. D. The role of the right ventricle during hypobaric hypoxic exercise: insights from patients after the Fontan operation, 31:269
Garcia, O. see Schmidt, W., 31:1406
Garcia, S. see Schmidt, W., 31:1406
Gardner, A. W., Montgomery, P. S., Womack, C. J., and Killewich, L. A. Smoking history is related to free-living daily physical activity in claudicants, 31: 980
Gardner, F. see Maxwell, N. S., 31:675
Gareau, R. see Audran, M., 31:639
Garrido, D. E. see Powers, C. M., 31:1714
Gaskill, S. E., Serfass, R. C., Bacharach, D. W., and Kelly, J. M. Responses to training in cross-country skiers, 31:1211
Gehlsen, G. M., Ganion, L. R., and Helfst, R. Fibroblast responses to variation in soft tissue mobilization pressure, 31:531
Georgakopoulos, N. see Foster, C., 31: 1157
George, K. see Whyte, G. P., 31:1237
Giacometti, M. see Roi, G. S., 31:723
Gibson, A. S. C., Lambert, M. I., Hawley, J. A., Broomhead, S.-A., and Noakes, T. D. Measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226
Giorgi, D. see Di Bello, V., 31:514
Giusti, C. see Di Bello, V., 31:514
Glassberg, H. L. see Libonati, J. R., 31: 258
Gledhill, N. see Warburton, D. E. R., 31: 800
Gledhill, N. see Wiebe, C. G., 31:684

Gleeson, M., McDonald, W. A., Pyne, D. B., Cripps, A. W., Francis, J. L., Fricker, P. A., and Clancy, R. L. Salivary IgA levels and infection risk in elite swimmers, 31:67
Goebbels, U. see Myers, J., 31:929
Goiriena, J. J. see Padilla, S., 31:878
Goldbach, R. M. see Powers, C. M., 31: 1714
Goldfarb, A. H. see Chung, S.-C., 31:409
Goldfield, G. S. see Epstein, L. H., 31: S553
Goldstein, A. see Perna, F. M., 31:973
Gómez, A. L. see Volek, J. S., 31:1147
Gonzalez, M. H. Book Review, 31:495
Gonzalez, N. C. Book Review, 31:193
Gonzalez-Portillo, G. Book Review, 31: 494
Goodpaster, B. H. see Kelley, D. E., 31: S619
Gordon, S. see Mastro, A. M., 31:74
Gordon, S. E. see Kraemer, W. J., 31:1320
Gore, C. J., Booth, M. L., Bauman, A., and Owen, N. Utility of pwc75% as an estimate of aerobic power in epidemiological and population-based studies, 31:348
Goss, F. L. see Kang, J., 31:82
Gozal, D., and Thiriet, P. Respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522
Grabiner, M. D. Book Review, 31:192
Grappe, F. see Candau, R. B., 31:1441
Gray, S. see Wee, S.-L., 31:393
Grazzi, G., Alfieri, N., Borsetto, C., Casoni, I., Manfredini, F., Mazzoni, G., and Conconi, F. The power output/heart rate relationship in cycling: test standardization and repeatability, 31:1478
Greenisen, M. C. see Lee, S. M. C., 31: 1755
Grindel, S. H. Book Review, 31:355
Grob, K. see Kuster, M. S., 31:368
Grove, D. S. see Mastro, A. M., 31:74
Grundy, S. M., Blackburn, G., Higgins, M., Lauer, R., Perri, M. G., and Ryan, D. Physical activity in the prevention and treatment of obesity and its comorbidities: evidence report of independent panel to assess the role of physical activity in the treatment of obesity and its comorbidities, 31:1493, 31:S502
Guidetti, L. see di Luigi, L., 31:1748
Gutin, B. see Owens, S., 31:143

H

Haapasalo, H. see Kontulainen, S., 31:646
Häkkinen, K. see Kraemer, W. J., 31:1320
Häkkinen, K. see Newton, R. U., 31:323
Haller, H. see Jordan, J., 31:362
Haftom, R. W., Kraemer, R. R., Sloan, R. A., Hebert, E. P., Frank, K., and Tryniecki, J. L. Circuit weight training and its effects on excess postexercise oxygen consumption, 31:1613
Hamill, J. see Heiderscheit, B. C., 31:1313
Hamlin, M. see Speedy, D. B., 31:809
Harackiewicz, D. V. see Sayers, S. P., 31:572
Harman, E. A. see Sayers, S. P., 31:572
Harnish, C. R. see Swensen, T. C., 31:742
Haskell, W. L. see Peltz, J. E., 31:1727
Haug, R. C., Porcari, J. P., Brice, G., and

- Terry, L.** Development of a maximal testing protocol for the NordicTrack cross-country ski simulator, 31:619
- Hauswirth, C., Lehénaff, D., Dréano, P., and Savonen, K.** Effects of cycling alone or in a sheltered position on subsequent running performance during a triathlon, 31:599
- Hawkins, S. A., Schroeder, E. T., Wiswell, R. A., Jaque, S. V., Marcell, T. J., and Costa, K.** Eccentric muscle action increases site-specific osteogenic response, 31:1287
- Hawley, J. A.** see Gibson, A. S. C., 31:1226
- Hawley, J. A.** see Hopkins, W. G., 31:472, 31:756
- Hawley, J. A.** see Stepto, N. K., 31:736
- Hayot, M.** see Ahmaidi, S., 31:1076
- Hayward, R., Ferrington, D. A., Kochanowski, L. A., Miller, L. M., Jaworsky, G. M., and Schneider, C. M.** Effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414
- Heath, E. M.** Book Review, 31:759
- Heath, G. W.** see Crespo, C. J., 31:1821
- Hebert, D.** see Baranowski, T., 31:1619
- Hebert, E. P.** see Haltom, R. W., 31:1613
- Hebestreit, H., Dunstheimer, D., Staschen, B., and Straßburg, H. M.** Single-leg Wingate Test in children: reliability and optimal braking force, 31:1218
- Hedman, G.** see Rimmer, J. H., 31:613
- Hegde, S. S.** see Chung, S.-C., 31:409
- Heiderscheit, B. C., Hamill, J., and van Emmerik, R. E. A.** Q-angle influences on the variability of lower extremity coordination during running, 31:1313
- Heil, D. P.** see Matthews, C. E., 31:486
- Heinonen, A.** see Kontulainen, S., 31:646
- Heifst, R.** see Gehlsen, G. M., 31:531
- Helgerud, J.** see Hoff, J., 31:870
- Hellström, F.** see Pedersen, J., 31:1047
- Hendriks, E. R.** see Peters, H. P. F., 31:767
- Hensrud, D. D.** see Morrey, M. A., 31:1233
- Herren, R., Sparti, A., Aminian, K., and Schutz, Y.** The prediction of speed and incline in outdoor running in humans using accelerometry, 31:1053
- Hertel, J., Denegar, C. R., Monroe, M. M., and Stokes, W. L.** Talocrural and subtalar joint instability after lateral ankle sprain, 31:1501
- Hespe, P.** see Vandenberghe, K., 31:236
- Higgins, M.** see Grundy, S. M., 31:1493, 31:S502
- Hiilloskorpi, H.** see Fogelholm, M., 31:229
- Hill, J. O., and Melanson, E. L.** Overview of the determinants of overweight and obesity: current evidence and research issues, 31:S515
- Hiller, W. D. B.** see O'Toole, M. L., 31:372
- Hillis, W. S.** see Terkelsen, K. E., 31:1429
- Hinman, C. L.** see Merrick, M. A., 31:1516
- Hintermann, B.** Biomechanics of the unstable ankle joint and clinical implications, 31:S459
- Hiroe, M.** see Sato, A., 31:1564
- His, N.** see Ahmaidi, S., 31:1076
- Ho, J.** see Jakicic, J. M., 31:747
- Hockenbury, R. T.** Forefoot problems in athletes, 31:S448
- Hoff, J., Helgerud, J., and Wisløff, U.** Maximal strength training improves work economy in trained female cross-country skiers, 31:870
- Hoffman, M. D.** see Candau, R. B., 31:1441
- Hoffman, S.** Book Review, 31:1357
- Hoffman-Goetz, L.** see Zahm, S. H., 31:566
- Hofmann, P.** see Pokan, R., 31:903
- Högler, R.** see Pokan, R., 31:903
- Hollander, A. P.** see Dallmeijer, A. J., 31:1330
- Hollander, A. P.** see van der Woude, L. H. V., 31:331
- Hollander, P. A. P.** see Dallmeijer, A. J., 31:1111
- Holmner, S.** see Kadi, F., 31:1528
- Homandberg, G. A.** Book Review, 31:1083
- Hoogeven, R. T.** see Seidell, J. C., 31:S597
- Hooper, S. L., Mackinnon, L. T., and Howard, A.** Physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205
- Hopkins, W. G.** see Plunkett, B. T., 31:1169
- Hopkins, W. G.** see Stepto, N. K., 31:736
- Hopkins, W. G., Hawley, J. A., and Burke, L. M.** Design and analysis of research on sport performance enhancement, 31:472
- Hopkins, W. G., Hawley, J. A., and Burke, L. M.** Response to Letter, 31:756
- Hoppeler, H.** see Kamber, M., 31:1763
- Hoppeler, H.** see Kreis, R., 31:1770
- Horabin, J.** see Wee, S.-L., 31:393
- Horrigan, J. M., Shellock, F. G., Mink, J. H., and Deutsch, A. L.** Magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361
- Horstmann, T.** see Mayer, F., 31:1085
- Hortobágyi, T.** see Kovács, I., 31:708
- Horvat, M., Croce, R., Pitetti, K. H., and Fernhall, B.** Comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190
- Hosmark, A. T.** see Børshiem, E., 31:522
- Howard, A.** see Hooper, S. L., 31:1205
- Howell, E. A.** see Singh, A., 31:536
- Hoy, S.** see Baum, K., 31:595
- Hsia, C. C. W.** Cardiopulmonary limitations to exercise in restrictive lung disease, 31:S28
- Hsu, T. C.** see Penn, I.-W., 31:1834
- Huddy, D. C.** Book Review, 31:921
- Hue, O., Le Gallais, D., Boussana, A., Chollet, D., and Prefaut, C.** Ventilatory responses during experimental cycle-run transition in triathletes, 31:1422
- Hughes, C. J.** Book Review, 31:1490
- Hughes, M.** see Vrabas, I. S., 31:1605
- Hughson, R. L.** see Shoemaker, J. K., 31:1019
- Hughson, R. L., and Tschakovsky, M. E.** Cardiovascular dynamics at the onset of exercise, 31:1005
- Hunter, D. M.** see McCrory, J. L., 31:1374
- Hutchinson, M. R.** Low back pain in elite rhythmic gymnasts, 31:1686
- Hütter, M.** see Jordan, J., 31:362
- Ibañez, J.** see Rodríguez, F. A., 31:264
- Imai, K.** see Tanaka, M., 31:1709
- Imamura, H., Yoshimura, Y., Nishimura, S., Nakazawa, A. T., Nishimura, C., and Shiota, T.** Oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342
- Ironson, G.** see Perna, F. M., 31:973
- Itai, Y.** see Akima, H., 31:588
- Itoh, K.** see Tanaka, M., 31:1709
- Iwasaki, T.** see Asakuma, S., 31:52
- Jackson, A. S.** see Walker, J. L., 31:311
- Jakicic, J. M., Winters, C., Lagally, K., Ho, J., Robertson, R. J., and Wing, R. R.** The accuracy of the TriTrac-R3D accelerometer to estimate energy expenditure, 31:747
- James, M. K.** see Martin, K. A., 31:627
- James, S. L.** see Stergiou, N., 31:1645
- Jamnik, V. K.** see Warburton, D. E. R., 31:800
- Jamnik, V. K.** see Wiebe, C. G., 31:684
- Jamurtas, A. Z.** see Chung, S.-C., 31:409
- Jankovic, J.** see Stanley, R. K., 31:761
- Janssen, I.** see Ross, R., 31:S568
- Jaque, S. V.** see Hawkins, S. A., 31:1287
- Jaskolska, A.** see Skinner, J. S., 31:1623
- Jaskolski, A.** see Skinner, J. S., 31:1623
- Jaworsky, G. M.** see Hayward, R., 31:414
- Jebb, S. A., and Moore, M. S.** Contribution of a sedentary lifestyle and inactivity to the etiology of overweight and obesity: current evidence and research issues, 31:S534
- Jenkins, D. G.** see Bishop, D., 31:886
- Jensen, R. L.** see Blackard, D. O., 31:443
- Ji, L. L.** see Powers, S. K., 31:987
- Johansson, H.** see Pedersen, J., 31:1047
- Jones, A. M.** see Carter, H., 31:837
- Jones, A. M.** see Tolfrey, K., 31:1550
- Jones, A. M., Carter, H., and Doust, J. H.** A disproportionate increase in $\dot{V}O_2$ coincident with lactate threshold during treadmill exercise, 31:1299
- Jones, D. S.** Book Review, 31:192
- Jordan, J., Beneke, R., Hütter, M., Veith, A., Luft, F. C., and Haller, H.** Regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362
- Joughin, H.** see Digenio, A. G., 31:1094, 31:942
- Joyner, M. J., and Proctor, D. N.** Muscle blood flow during exercise: the limits of reductionism, 31:1036
- Kadi, F., Eriksson, A., Holmner, S., and Thornell, L.-E.** Effects of anabolic steroids on the muscle cells of strength-trained athletes, 31:1528
- Kahn, K. M.** see Maffulli, N., 31:352
- Kalsbeek, W. D.** see Weaver, N. L., 31:176
- Kamber, M.** see Kreis, R., 31:1770
- Kamber, M., Koster, M., Kreis, R., Walker, G., Boesch, C., and Hoppeler, H.** Creatine supplementation—Part I: performance, clinical chemistry, and muscle volume, 31:1763
- Kamen, G.** see Leong, B., 31:1638

- Kamen, G. see Sayers, S. P., 31:1697
 Kamp, D. W. Book Review, 31:1490
 Kampert, J. B. see Whaley, M. H., 31:287
 Kang, J., Chaloupka, E. C., Mastrangelo, M. A., and Angelucci, J. Physiological responses to upper body exercise on an arm and a modified leg ergometer, 31:1453
 Kang, J., Kelley, D. E., Robertson, R. J., Goss, F. L., Suminski, R. R., Utter, A. C., and Dasilva, S. G. Substrate utilization and glucose turnover during exercise of varying intensities in individuals with NIDDM, 31:82
 Kannus, P. see Kontulainen, S., 31:646
 Kaprio, J. see Kujala, U. M., 31:1041
 Karjalainen, J. see Kujala, U. M., 31:1041
 Kasparian, R. see Libonati, J. R., 31:258
 Katsuta, S. see Akima, H., 31:588
 Kearney, J. T. Sport performance enhancement: design and analysis of research, 31:755
 Keller, B. A. see Swensen, T. C., 31:742
 Kelley, D. E. see Kang, J., 31:82
 Kelley, D. E., and Goodpaster, B. H. Effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619
 Kelly, J. M. see Gaskill, S. E., 31:1211
 Kemkers, G. see Foster, C., 31:1433
 Kernozek, T. W. see Willson, J. D., 31:1828
 Keteyian, S. J. see Crespo, C. J., 31:1821
 Killewich, L. A. see Gardner, A. W., 31:980
 Kindermann, W. see Meyer, T., 31:1342
 King, N. A. see Blundell, J. E., 31:S573
 Kinukawa, N. see Tanaka, M., 31:1709
 Klimas, N. see Perna, F. M., 31:973
 Knapp, E. see Foster, C., 31:1433
 Knardahl, S. see Borsheim, E., 31:522
 Knutt, H. G. see Bush, J. A., 31:554
 Kochanowski, L. A. see Hayward, R., 31:414
 Kohl, H. W., III see Whaley, M. H., 31:287
 Kohlmeier, C. K. see Coddia, M. A., 31:829
 Koike, A. see Sato, A., 31:1564
 Koltyn, K. F. see Focht, B. C., 31:456
 Kontulainen, S., Kannus, P., Haapasalo, H., Heinonen, A., Sievänen, H., Oja, P., and Vuori, I. Changes in bone mineral content with decreased training in competitive young adult tennis players and controls: a prospective 4-yr follow-up, 31:646
 Koo, M. M., and Rohan, T. E. Comparison of four habitual physical activity questionnaires in girls aged 7-15 yr, 31:421
 Koppes, L. see Perna, F. M., 31:973
 Koralsztein, J.-P. see Billat, V. L., 31:156
 Koskenvuo, M. see Kujala, U. M., 31:1041
 Koster, M. see Kamber, M., 31:1763
 Koster, M. see Kreis, R., 31:1770
 Kostka, T., Lacour, J.-R., Berthouze, S. E., and Bonnefoy, M. Relationship of physical activity and fitness to lipid and lipoprotein (a) in elderly subjects, 31:1183
 Kovács, I., Tihanyi, J., Devita, P., Rácz, L., Barrier, J., and Hortobágyi, T. Foot placement modifies kinematics and kinetics during drop jumping, 31:708
 Koval, J. A., Maezono, K., Patti, M. E., Pendergrass, M., DeFronzo, R. A., and Mandarino, L. J. Effects of exercise and insulin on insulin signaling proteins in human skeletal muscle, 31:998
 Koval, J. J. see Paterson, D. H., 31:1813
 Kovan, J. R. Book Review, 31:1230, 31:1357
 Koyama, Y. see Sato, A., 31:1564
 Koziris, L. P. see Kraemer, W. J., 31:1320
 Kraemer, R. R. see Acevedo, E. O., 31:1460
 Kraemer, R. R. see Haltom, R. W., 31:1613
 Kraemer, W. J. see Bush, J. A., 31:554
 Kraemer, W. J. see Gaesser, G. A., 31:917
 Kraemer, W. J. see Mastro, A. M., 31:74
 Kraemer, W. J. see Newton, R. U., 31:323
 Kraemer, W. J. see Volek, J. S., 31:1147
 Kraemer, W. J., Volek, J. S., Clark, K. L., Gordon, S. E., Puhl, S. M., Koziris, L. P., McBride, J. M., Triplett-McBride, N. T., Putukian, M., Newton, R. U., Häkkinen, K., Bush, J. A., and Sebastianelli, W. J. Influence of exercise training on physiological and performance changes with weight loss in men, 31:1320
 Krecké, R. see Delagardelle, C., 31:1102
 Kreis, R. see Kamber, M., 31:1763
 Kreis, R., Kamber, M., Koster, M., Felblinger, J., Slotboom, J., Hoppeler, H., and Boesch, C. Creatine supplementation—Part II: in vivo magnetic resonance spectroscopy, 31:1770
 Kriemler, S., Wilk, B., Schurer, W., Wilson, W. M., and Bar-Or, O. Preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774
 Krip, B. see Warburton, D. E. R., 31:800
 Kripke, D. F. see Youngstedt, S. D., 31:864
 Kubitz, K. A. see Acevedo, E. O., 31:1460
 Kuenster, A. F. see Chow, J. W., 31:846, 31:855
 Kühne, G. see Rico-Sanz, J., 31:1580
 Kujala, U. M., Sarna, S., Kaprio, J., Koskenvuo, M., and Karjalainen, J. Heart attacks and lower-limb function in master endurance athletes, 31:1041
 Kuno, S.-Y. see Akima, H., 31:588
 Kuo, C.-F. see Lin, Y.-S., 31:1594
 Kuo, H.-L. see Lin, Y.-S., 31:1594
 Kuster, M. see Kuster, M. S., 31:368
 Kuster, M. S., Grob, K., Kuster, M., Wood, G. A., and Gächter, A. The benefits of wearing a compression sleeve after ACL reconstruction, 31:368
 Kuttner, J. A. see Speedy, D. B., 31:809
 Kyle, C. R. see Bassett, D. R., Jr., 31:1665
 Kyle, C. R. see Broker, J. P., 31:1677
- L
- Lachance, V. see Browne, A., 31:497
 Lacour, J.-R. see Kostka, T., 31:1183
 Lagally, K. see Jakicic, J. M., 31:747
 Lai, J.-S. see Lan, C., 31:634
 Laird, R. H. see O'Toole, M. L., 31:372
 Lama, I. L. see McKenzie, D. C., 31:99
 Lamb, D. R. see Capriotti, P. V., 31:913
 Lambert, M. I. see Gibson, A. S. C., 31:1226
 Lan, C., Chen, S.-Y., Lai, J.-S., and Wong, M.-K. The effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery, 31:634
 Landers, D. M. see Dale, K. S., 31:1382
 LaPerriere, A. see Perna, F. M., 31:973
 Larson, J. L. see Covey, M. K., 31:1257
 Lauder, T. D., Williams, M. V., Campbell, C. S., Davis, G. D., and Sherman, R. A. Abnormal eating behaviors in military women, 31:1265
 Lauderdale, D. S. Book Review, 31:193
 Lauer, R. see Grundy, S. M., 31:1493, 31:S502
 Laughlin, M. H., and Schrage, W. G. Effects of muscle contraction on skeletal muscle blood flow: when is there a muscle pump?, 31:1027
 Laurencelle, L. see Trudeau, F., 31:111
 Laurie, N. E. see Draheim, C. C., 31:1849
 Lawrence, L. L. see Singh, A., 31:536
 Layne, J. E., and Nelson, M. E. The effects of progressive resistance training on bone density: a review, 31:25
 Lazarus, M. L. Imaging of the foot and ankle in the injured athlete, 31:S412
 Lebnestadt, M., Platte, P., and Pirke, K.-M. Reduced resting metabolic rate in athletes with menstrual disorders, 31:1250
 Lee, J. see Chung, S.-C., 31:409
 Lee, S. M. C., Moore, A. D., Jr., Fritsch-Yelle, J. M., Greenisen, M. C., and Fortney Schneider, S. M. Inflight exercise affects stand test responses after space flight, 31:1755
 Leeuwenburgh, C. see Powers, S. K., 31:987
 Lefevre, J. see Beunen, G., 31:653
 Le Gallais, D. see Hue, O., 31:1422
 Lehenaff, D. see Hausswirth, C., 31:599
 Leklem, J. E. see Virk, R. S., 31:400
 Leon, A. S. see Rivera, M. A., 31:698
 Leon, A. S. see Skinner, J. S., 31:1623
 Leon, A. S. see Stanforth, P. R., 31:183
 Leonard, B. see Roberts, W. O., 31:46
 Leone, D. M. see Almeida, S. A., 31:1807
 Leong, B., Kamen, G., Patten, C., and Burke, J. R. Maximal motor unit discharge rates in the quadriceps muscles of older weight lifters, 31:1638
 Leung, K.-S. see Qin, L., 31:502
 Levine, B. D. see Garcia, J. A., 31:269
 Lewis, R. D. see Evans, E. M., 31:1778
 Lewis, R. D. see Modlesky, C. M., 31:1861
 Leyk, D. see Baum, K., 31:595
 Libert, J. P. see Ahmadi, S., 31:1076
 Libonati, J. R. Myocardial diastolic function and exercise, 31:1741
 Libonati, J. R., Colby, A. M., Caldwell, T. M., Kasparian, R., and Glassberg, H. L. Systolic and diastolic cardiac function time intervals and exercise capacity in women, 31:258
 Liedl, M. A., Swain, D. P., and Branch, J. D. Physiological effects of constant versus variable power during endurance cycling, 31:1472
 Lim, J. see Wallace, M. B., 31:1788
 Lim, Y.-T. see Chow, J. W., 31:846, 31:855
 Lin, Y.-S., Kuo, H.-L., Kuo, C.-F., Wang, S.-T., Yang, B.-C., and Chen, H.-I. Antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594
 Lincoski, C. see Mastro, A. M., 31:74
 Lindeman, A. K. Quest for ideal weight: costs and consequences, 31:1135
 Litaker, M. see Owens, S., 31:143
 Long, K. see Almeida, S. A., 31:1807
 Lönn, J. see Pedersen, J., 31:1047
 Lowery, R. B. see McCrory, J. L., 31:1374

Lox, C. L., Burns, S. P., Treasure, D. C., and Wasley, D. A. Physical and psychological predictors of exercise dosage in healthy adults, 31:1060
Lu, Q. see Ceddia, M. A., 31:829
Lucia, A., Serratos, L., Saborido, A., Pardo, J., Boraita, A., Morán, M., Bandrés, F., Megias, A., and Chicharro, J. L. Short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414
Luft, F. C. see Jordan, J., 31:362
Lupien, P. J. see St-Amand, J., 31:692
Lyons, P., and Miller, W. C. Effective health promotion and clinical care for large people, 31:1141

M

Maan, A. C. see Schuit, A. J., 31:816
MacArthur, J. W. see Williams, N. I., 31:949
MacAuley, D. The European Perspective: Ankle injuries: same joint, different sports, 31:S409
MacAuley, D. The European Perspective: New dimensions in pulmonary research, 31:S1
MacDonald, J. see Bourgeois, J., 31:4
MacDonald, J. R. see MacDougall, J. D., 31:1876
MacDougall, D. see Bourgeois, J., 31:4
MacDougall, J. D., Brittain, M., MacDonald, J. R., McKelvie, R. S., Moroz, D. E., Tarnopolsky, M. A., and Moroz, J. S. Validity of predicting mean arterial blood pressure during exercise, 31:1876
Macera, C. A. see Pratt, M., 31:S526
Mackinnon, L. T. see Bishop, D., 31:886
Mackinnon, L. T. see Hooper, S. L., 31:1205
Madden, C. Book Review, 31:1358
Maexono, K. see Koval, J. A., 31:998
Maffulli, N. see Testa, V., 31:1509
Maffulli, N., and Kahn, K. M. Clinical nomenclature for tendon injuries, 31:352
Majors, P. see Perna, F. M., 31:973
Makemson, D. see Perna, F. M., 31:973
Malina, R. M. see Beunen, G., 31:653
Malina, R. M. see Taylor, W. C., 31:118
Manal, K. see McClay, I., 31:1629
Mandarin, L. J. see Koval, J. A., 31:998
Mandelbaum, B. R. see Safran, M. R., 31:S429
Mandelbaum, R. see Safran, M. R., 31:S438
Manfredini, F. see Grazi, G., 31:1478
Marcell, T. J. see Hawkins, S. A., 31:1287
Marcus, R. see Taaffe, D. R., 31:1484
Mardirosoff, C. see Anoshiravani, M., 31:969
Marion, B. see Audran, M., 31:639
Marlow, S. Book Review, 31:1880
Marshall, K. J. see Smith, T. P., 31:892
Martin, D. F. see McCrory, J. L., 31:1374
Martin, K. A., Rejeski, W. J., Miller, M. E., James, M. K., Ettinger, W. H., Jr., and Messier, S. P. Validation of the PASE in older adults with knee pain and physical disability, 31:627
Marumo, F. see Sato, A., 31:1564
Mastrangelo, M. A. see Kang, J., 31:1453
Mastro, A. M. see Bush, J. A., 31:554
Mastro, A. M., Schlosser, D. A., Grove, D. S., Lincoski, C., Pishak, S. A., Gordon, S., and Kraemer, W. J.

Lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise, 31:74
Masuda, K. see Akima, H., 31:588
Masuda, T. see Akima, H., 31:588
Masuda, T. see Tanaka, M., 31:1709
Matecki, S. see Audran, M., 31:639
Matheson, G. O. see Peltz, J. E., 31:1727
Matthews, C. E., Heil, D. P., Freedson, P. S., and Pastides, H. Classification of cardiorespiratory fitness without exercise testing, 31:486
Matthys, D. see Calders, P., 31:583
Maughan, R. J. see Pitsiladis, Y. P., 31:1570
Maughan, R. J. see Strachan, A. T., 31:547
Maxwell, N. S., Gardner, F., and Nimmo, M. A. Intermittent running: muscle metabolism in the heat and effect of hypohydration, 31:675
Mayer, F., Topka, H., Boose, A., Horstmann, T., and Dickhuth, H. H. Bilateral segmental dystonia in a professional tennis player, 31:1085
Mazzeo, R. S. Book Review, 31:1881
Mazzetti, S. A. see Volek, J. S., 31:1147
Mazzoni, G. see Grazi, G., 31:1478
McAuley, E. see Ceddia, M. A., 31:829
McBride, J. M. see Kraemer, W. J., 31:1320
McCahon, E. M. Book Review, 31:922
McCartney, N. Acute responses to resistance training and safety, 31:31
McCaw, S. T., and Cerullo, J. F. Prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702
McCaw, S. T., and Melrose, D. R. Stance width and bar load effects on leg muscle activity during the parallel squat, 31:428
McCinn, S. B. see Garcia, J. A., 31:269
McClay, I., and Manal, K. Three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629
McColley, S. A. see Boas, S. R., 31:1242
McConell, G. K., Stephens, T. J., and Canny, B. J. Fluid ingestion does not influence intense 1-h exercise performance in a mild environment, 31:386
McConnell, K. see Swan, P. D., 31:1068
McCoy, R. L. Book Review, 31:1084
McCrory, J. L., Martin, D. F., Lowery, R. B., Cannon, D. W., Curl, W. W., Read, H. M., Jr., Hunter, D. M., Craven, T., and Messier, S. P. Etiologic factors associated with Achilles tendinitis in runners, 31:1374
McCubbin, J. A. see Draheim, C. C., 31:1849
McDonald, W. A. see Gleeson, M., 31:67
McEniery, M. see Bishop, D., 31:886
McGrath, M. J. see Brenner, I. K. M., 31:792
McGrew, C. A. Book Review, 31:1491
McKelvie, R. S. see MacDougall, J. D., 31:1876
McKenna, W. J. see Whyte, G. P., 31:1237
McKenzie, A. D. see Caird, S. J., 31:717
McKenzie, D. C., Lama, I. L., Potts, J. E., Sheel, A. W., and Coutts, K. D. The effect of repeat exercise on pulmonary diffusing capacity and EIH in trained athletes, 31:99
McLean, S. G., Neal, R. J., Myers, P. T., and Walters, M. R. Knee joint kinematics

during the sidestep cutting maneuver: potential for injury in women, 31:959
McMillan, G. S. see Bodary, P. F., 31:543
McNaughton, L. see Buck, D., 31:1346
McNaughton, L. R. see Smith, T. P., 31:892
McTiernan, A., Ulrich, C. M., Yancey, D., Slate, S., Nakamura, H., Oestreicher, N., Bowen, D., Yasui, Y., Potter, J., and Schwartz, R. The Physical Activity for Total Health (PATH) Study: rationale and design, 31:1307
Megias, A. see Lucia, A., 31:1414
Megias, A. see Molano, F., 31:243
Meijer, O. G. see Perna, F. M., 31:973
Melanson, E. L. see Hill, J. O., 31:S515
Melrose, D. R. see McCaw, S. T., 31:428
Ménard, M. see Candau, R. B., 31:1441
Merrick, M. A., Rankin, J. M., Andres, F. A., and Hinman, C. L. A preliminary examination of cryotherapy and secondary injury in skeletal muscle, 31:1516
Mess, D. Book Review, 31:1083, 31:921
Messier, S. P. see Martin, K. A., 31:627
Messier, S. P. see McCrory, J. L., 31:1374
Meyer, K. see Foster, C., 31:1157
Meyer, T., Gabriel, H. H. W., and Kindermann, W. Is determination of exercise intensities as percentages of $\dot{V}O_{2max}$ or HR_{max} adequate?, 31:1342
Michaud, T. J. see Walker, J. L., 31:311
Micheli, L. J. see Orme, M. L., 31:S470
Millard-Stafford, M. L. see Collins, M. A., 31:1350
Millard-Stafford, M. L. see Modlesky, C. M., 31:1861
Miller, L. M. see Hayward, R., 31:414
Miller, M. E. see Martin, K. A., 31:627
Miller, W. C. see Lyons, P., 31:1141
Miller, W. C. How effective are traditional dietary and exercise interventions for weight loss?, 31:1129
Millet, G. Y. see Candau, R. B., 31:1441
Mindock, L. A. see Chow, J. W., 31:1272
Mink, J. H. see Horrigan, J. M., 31:1361
Modlesky, C. M., Evans, E. M., Millard-Stafford, M. L., Collins, M. A., Lewis, R. D., and Cureton, K. J. Impact of bone mineral estimates on percent fat estimates from a four-component model, 31:1861
Molano, F., Saborido, A., Delgado, J., Morán, M., and Megias, A. Rat liver lysosomal and mitochondrial activities are modified by anabolic-androgenic steroids, 31:243
Molnar, T. see Powers, C. M., 31:1714
Monga, M. see Brenner, I. K. M., 31:792
Monroe, M. M. see Hertel, F., 31:1501
Montgomery, P. S. see Gardner, A. W., 31:980
Moore, A. D., Jr. see Lee, S. M. C., 31:1755
Moore, M. S. see Jebb, S. A., 31:S534
Moorjani, S. see St-Amand, J., 31:692
Moran, D. S. see Epstein, Y., 31:224
Morán, M. see Lucia, A., 31:1414
Morán, M. see Molano, F., 31:243
Moretto, P. see Pelayo, P., 31:1839
Morgan, C. G. see Nichols, J. F., 31:908
Moroz, D. E. see MacDougall, J. D., 31:1876
Moroz, J. S. see MacDougall, J. D., 31:1876
Morrey, M. A., and Hensrud, D. D. Risk of medical events in a supervised health and fitness facility, 31:1233

Morrow, J. R., Jr. see Walker, J. L., 31: 311

Mosterd, W. L. see Peters, H. P. F., 31: 767

Mucci, P., Anselme-Poujol, F., Caillaud, C., Couret, I., Rossi, M., and Préfaut, C. Basophil releasability in young highly trained and older athletes, 31:507

Mueller, F. O. see Weaver, N. L., 31:176

Mujika, I. see Padilla, S., 31:878

Muriaux, G. see Billat, V. L., 31:156

Murrant, C. L. see Frisbee, J. C., 31:1293

Murray, T. D. see Walker, J. L., 31:311

Myers, J., Dziekan, G., Goebbels, U., and Dubach, P. Influence of high-intensity exercise training on the ventilatory response to exercise in patients with reduced ventricular function, 31:929

Myers, P. T. see McLean, S. G., 31:959

N

Nadeau, A. see St-Amand, J., 31:692

Nakamura, H. see McTiernan, A., 31:1307

Nakamura, M. see Tanaka, M., 31:1709

Nakazawa, A. T. see Imamura, H., 31:342

Nau, K. L. see Palmer, A. S., 31:1336

Neal, R. J. see McLean, S. G., 31:959

Nebelung, W. see Urbach, D., 31:1691

Nelson, B. W. see Carpenter, D. M., 31:18

Nelson, M. E. see Layne, J. E., 31:25

Neptune, R. R., Wright, I. C., and van

den Bogert, A. J. Muscle coordination

and function during cutting movements,

31:294

Newton, R. U. see Kraemer, W. J., 31:

1320

Newton, R. U., Kraemer, W. J., and

Häkkinen, K. Effects of ballistic training

on preseason preparation of elite volleyball

players, 31:323

Niaura, R. S. see Engebretson, T. O., 31:

216

Nichol, P. M. see Petrella, R. J., 31:1163

Nicholas, C. W., Tsintzas, K., Boobis, L.,

and Williams, C. Carbohydrate-electrolyte

ingestion during intermittent high-intensity

running, 31:1280

Nichols, J. F., Morgan, C. G., Sarkin,

J. A., Sallis, J. F., and Calfas, K. J.

Validity, reliability, and calibration of the

Tritrac accelerometer as a measure of

physical activity, 31:908

Nichols, W. W. Book Review, 31:758

Nieman, D. C. see Woods, J. A., 31:57

Nigg, B. M. see van den Bogert, A. J., 31:

131

Nigg, B. M., Nurse, M. A., and

Stefanyshyn, D. J. Shoe inserts and

orthotics for sport and physical activities,

31:S421

Nimmo, M. A. see Maxwell, N. S., 31:675

Nishimura, C. see Imamura, H., 31:342

Nishimura, S. see Imamura, H., 31:342

Noakes, T. D. see Digenio, A. G., 31:1094,

31:942

Noakes, T. D. see Gibson, A. S. C., 31:

1226

Noakes, T. D. see Schabort, E. J., 31:464

Noakes, T. D. see Speedy, D. B., 31:809

Nordio, M. see di Luigi, L., 31:1748

Norton, K. H. see Smith, S. A., 31:277

Nummela, A. T. see Paavolainen, L. M.,

31:124

Nurse, M. A. see Nigg, B. M., 31:S421

Nyland, J. see Brindle, T. J., 31:1394

Nyland, J. see Eisner, W. D., 31:449

O

Oakes, B. W. see Crossley, K., 31:1088

O'Brien, C., Baker-Fulco, C. J., Young,

A. J., and Sawka, M. N. Bioimpedance

assessment of hypohydration, 31:1466

O'Connor, P. see Pronk, N. P., 31:1535

Oestreicher, N. see McTiernan, A., 31:

1307

Ogilvie, R. W. see Deschenes, M. R., 31:

1599

Ogita, F., Onodera, T., and Tabata, I.

Effect of hand paddles on anaerobic

energy release during supramaximal

swimming, 31:729

Ohyang, M. see Asakuma, S., 31:52

Oja, P. see Kontulainen, S., 31:646

Olsen, J. Book Review, 31:1689

O'Malley, D. F., Jr. see Safran, M. R., 31:

S487

Omer, J. see Collins, M. A., 31:1350

Omey, M. L., and Micheli, L. J. Foot and

ankle problems in the young athlete, 31:

S470

Onodera, T. see Ogita, F., 31:729

Oosthuysen, T., and Carter, R. N. Plasma

lactate decline during passive recovery

from high-intensity exercise, 31:670

O'Toole, M. L., Douglas, P. S., Hiller,

W. D. B., and Laird, R. H. Hematocrits of

triathletes: is monitoring useful?, 31:372

Owen, N. see Gore, C. J., 31:348

Owens, S., Gutin, B., Allison, J., Riggs,

S., Ferguson, M., Litaker, M., and

Thompson, W. Effect of physical training

on total and visceral fat in obese children,

31:143

P

Paavolainen, L. M., Nummela, A. T., and

Rusko, H. K. Neuromuscular

characteristics and muscle power as

determinants of 5-km running

performance, 31:124

Padilla, S., Mujika, I., Cuesta, G., and

Goiriena, J. J. Level ground and uphill

cycling ability in professional road cycling,

31:878

Pagés, T. see Rodríguez, F. A., 31:264

Palmer, A. S., Potteiger, J. A., Nau,

K. L., and Tong, R. J. A 1-day maximal

lactate steady-state assessment protocol

for trained runners, 31:1336

Pannier, J.-L. see Calders, P., 31:583

Papanicolaou, D. A. see Singh, A., 31:536

Parcell, A. C. see Bolster, D. R., 31:251

Pardo, J. see Lucía, A., 31:1414

Passfield, L. see Bassett, D. R., Jr., 31:

1665

Pastides, H. see Matthews, C. E., 31:486

Pate, R. R. see Bodary, P. F., 31:543

Patemi, M. see Di Bello, V., 31:514

Paterson, D. H., Cunningham, D. A.,

Koval, J. J., and St. Croix, C. M. Aerobic

fitness in a population of independently

living men and women aged 55–86 years,

31:1813

Patheal, S. L. see Almeida, S. A., 31:1807

Patten, C. see Leong, B., 31:1638

Patten, J. A. Book Review, 31:356

Patti, M. E. see Koval, J. A., 31:998

Pavone, J. see Perna, F. M., 31:973

Pearson, D. R. see Volek, J. S., 31:1147

Pedersen, J., Lönn, J., Hellström, F.,

Djupsjöbacka, M., and Johansson, H.

Localized muscle fatigue decreases the

acuity of the movement sense in the

human shoulder, 31:1047

Pelayo, P., Sidney, M., Moretto, P.,

Wille, F., and Chollet, D. Strokking

parameters in top level swimmers with a

disability, 31:1839

Peltz, J. E., Haskell, W. L., and

Matheson, G. O. A comprehensive and

cost-effective preparticipation exam

implemented on the World Wide Web, 31:

1727

Pendergrass, M. see Koval, J. A., 31:998

Penn, I.-W., Chuang, T.-Y., Chan, R.-C.,

and Hsu, T. C. EMG power spectrum

analysis of first dorsal interosseous muscle

in pianists, 31:1834

Perkins, J. L. see Draheim, C. C., 31:1849

Perna, F. M., LaPerriere, A., Klimas, N.,

Ironson, G., Perry, A., Pavone, J.,

Goldstein, A., Majors, P., Makemson, D.,

Talutto, C., Schneiderman, N., Fletcher,

M. A., Meijer, O. G., and Koppes, L.

Cardiopulmonary and CD4 cell changes in

response to exercise training in early

symptomatic HIV infection, 31:973

Perri, M. G. see Grundy, S. M., 31:1493,

31:S502

Perry, A. see Perna, F. M., 31:973

Péruze, L. see Rivera, M. A., 31:698

Peters, H. P. F., Zweers, M., Backx,

F. J. G., Bol, E., Hendriks, E. R.,

Mosterd, W. L., and de Vries, W. R.

Gastrointestinal symptoms during long-

distance walking, 31:767

Peterson, A. T., Steffen, J., Terry, L.,

Davis, J., Porcari, J. P., and Foster, C.

Metabolic responses associated with deer

hunting, 31:1844

Petit, B. see Billat, V. L., 31:156

Petit, M. A., Prior, J. C., and Barr, S. I.

Running and ovulation positively change

cancellous bone in premenopausal

women, 31:780

Petrella, R. J., Cunningham, D. A.,

Nichol, P. M., and Thayer, R.

Cardiovascular responses to facial cooling

are age and fitness dependent, 31:1163

Phillips, T. see Engebretson, T. O., 31:216

Pierce, P. A. Book Review, 31:1083

Pigozzi, F. see di Luigi, L., 31:1748

Pipe, A. see Browne, A., 31:497

Pirke, K.-M. see Lebenstedt, M., 31:1250

Pishak, S. A. see Mastro, A. M., 31:74

Pi-Sunyer, F. X. Comorbidities of

overweight and obesity: current evidence

and research issues, 31:S602

Pitetti, K. H. see Horvat, M., 31:1190

Pitsiladis, Y. P., Smith, I., and Maughan,

R. J. Increased fat availability enhances

the capacity of trained individuals to

perform prolonged exercise, 31:1570

Platte, P. see Lebenstedt, M., 31:1250

Plunkett, B. T., and Hopkins, W. G.

Investigation of the side pain "stitch"

induced by running after fluid ingestion,

31:1169

Poehlman, E. T. see Toth, M. J., 31:S590

Pogliaghi, S., and Veicsteinas, A.

Influence of low and high dietary fat on

physical performance in untrained males,

31:149

Pokan, R., Hofmann, P., von Duvillard,

S. P., Smekal, G., Högl, R., Tschann, H.,

Baron, R., Schmid, P., and Bachi, N. The

heart rate turn point reliability and

methodological aspects, 31:903

Pollock, M. J., and Evans, W. J. Resistance training for health and disease, 31:10
Pollock, M. L. see Feigenbaum, M. S., 31:38
Poortmans, J. R., and Francaux, M. Long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108
Porcari, J. P. see Haug, R. C., 31:619
Porcari, J. P. see Peterson, A. T., 31:1844
Potteiger, J. A. see Palmer, A. S., 31:1336
Potter, J. see McTiernan, A., 31:1307
Potts, J. E. see McKenzie, D. C., 31:99
Powers, C. M., Shellock, F. G., Beering, T. V., Garrido, D. E., Goldbach, R. M., and Molnar, T. Effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714
Powers, S. K. see Gaesser, G. A., 31:917
Powers, S. K. see Vrabas, I. S., 31:1605
Powers, S. K., Ji, L. L., and Leeuwenburgh, C. Exercise training-induced alterations in skeletal muscle antioxidant capacity: a brief review, 31:987
Pratt, M., Macera, C. A., and Blanton, C. Levels of physical activity and inactivity in children and adults in the United States: current evidence and research issues, 31:S526
Préfaut, C. see Ahmaidi, S., 31:1076
Prefaut, C. see Hue, O., 31:1422
Préfaut, C. see Mucci, P., 31:507
Price, E. A. see Coddia, M. A., 31:829
Prior, J. C. see Petit, M. A., 31:780
Proctor, D. N. see Joyner, M. J., 31:1036
Pronk, N. P., Tan, A. W. H., and O'Connor, P. Obesity, fitness, willingness to communicate and health care costs, 31:1535
Protas, E. J. see Stanley, R. K., 31:761
Province, M. see Rivera, M. A., 31:698
Prud'homme, D. see St-Amand, J., 31:692
Puhl, S. M. see Kraemer, W. J., 31:1320
Putukian, M. see Bush, J. A., 31:554
Putukian, M. see Kraemer, W. J., 31:1320
Putukian, M. see Volek, J. S., 31:1147
Putukian, M. Book Review, 31:758
Pyne, D. B. see Gleeson, M., 31:67

Q

Qin, L., Leung, K.-S., Chan, C.-W., Fu, L.-K., and Rosier, R. Enlargement of remaining patella after partial patellectomy in rabbits, 31:502
Querry, R. G. see Smith, S. A., 31:277
Quinn, T. J., and Carey, G. B. Does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

R

Rácz, L. see Kovács, I., 31:708
Rajic, M. see Trudeau, F., 31:111
Rama, R. see Rodriguez, F. A., 31:264
Ramirez-Valles, J. Book Review, 31:624
Ramonatxo, M. see Ahmaidi, S., 31:1076
Rankin, J. M. see Merrick, M. A., 31:1516
Rao, D. C. see Rivera, M. A., 31:698
Rao, D. C. see Skinner, J. S., 31:1623
Rao, D. C. see Stanforth, P. R., 31:183
Rauramaa, R., and Väisänen, S. B. Physical activity in the prevention and treatment of a thrombogenic profile in the

obese: current evidence and research issues, 31:S631
Raven, P. B. see Smith, S. A., 31:277
Raven, P. B. Editorial, 31:1, 31:923
Raymond, J., Davis, G. M., Climstein, M., and Sutton, J. R. Cardiorespiratory responses to arm cranking and electrical stimulation leg cycling in people with paraplegia, 31:822
Read, H. M., Jr. see McCrory, J. L., 31:1374
Read, L. see van den Bogert, A. J., 31:131
Reid, M. B. see Vrabas, I. S., 31:1605
Rejeski, W. J. see Martin, K. A., 31:627
Reuter, I., Engelhardt, M., Stecker, K., and Baas, H. Therapeutic value of exercise training in Parkinson's disease, 31:1544
Ricart, A. see Rodriguez, F. A., 31:264
Rice, T. see Skinner, J. S., 31:1623
Rich, J. D., Dickinson, B. P., Flanagan, T. P., and Valone, S. E. Abscess related to anabolic-androgenic steroid injection, 31:207
Rico-Sanz, J., Zehnder, M., Buchli, R., Dambach, M., and Boutellier, U. Muscle glycogen degradation during simulation of a fatiguing soccer match in elite soccer players examined noninvasively by ¹³C-MRS, 31:1587
Rico-Sanz, J., Zehnder, M., Buchli, R., Kühne, G., and Boutellier, U. Noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ³¹P- and ¹³C-MRS, 31:1580
Ridderikhoff, A., Batelaan, J. H., and Bobbert, M. F. Jumping for distance: control of the external force in squat jumps, 31:1196
Riggs, S. see Owens, S., 31:143
Rijneke, R. D. see Schuit, A. J., 31:816
Rimmer, J. H., Rubin, S. S., Braddock, D., and Hedman, G. Physical activity patterns of African-American women with severe physical disabilities, 31:613
Rissanen, A., and Fogelholm, M. Physical activity in the prevention and treatment of other morbid conditions and impairments associated with obesity: current evidence and research issues, 31:S635
Rivera, M. A., Pérusse, L., Simoneau, J.-A., Gagnon, J., Dionne, F. T., Leon, A. S., Skinner, J. S., Wilmore, J. H., Province, M., Rao, D. C., and Bouchard, C. Linkage between a muscle-specific CK gene marker and $\dot{V}O_{2max}$ in the HERITAGE Family Study, 31:698
Roberts, W. O., Brust, J. D., and Leonard, B. Youth ice hockey tournament injuries: rates and patterns compared to season play, 31:46
Robertson, R. J. see Jakicic, J. M., 31:747
Robertson, R. J. see Kang, J., 31:82
Rodriguez, F. A., Casas, H., Casas, M., Pagés, T., Rama, R., Ricart, A., Ventura, J. L., Ibáñez, J., and Viscor, G. Intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264
Rodriguez, N. R. see Ebbeling, C. B., 31:378
Rogers, I. R. see Speedy, D. B., 31:809
Rohan, T. E. see Koo, M. M., 31:421

Roi, G. S., Giacometti, M., and von Duvillard, S. P. Marathons in altitude, 31:723
Rojas, J. see Schmidt, W., 31:1406
Romanelli, F. see di Luigi, L., 31:1748
Rose, D. J. Book Review, 31:355
Rosenberg, D. Book Review, 31:193
Rosenstein, M. T. see Sayers, S. P., 31:572
Rosier, R. see Qin, L., 31:502
Roskamm, H. see Foster, C., 31:1157
Ross, R., and Janssen, I. Is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:S568
Rossi, M. see Mucci, P., 31:507
Roskopf, L. B. see Collins, M. A., 31:1350
Rössner, S. Physical activity and prevention and treatment of weight gain associated with pregnancy: current evidence and research issues, 31:S560
Rouillon, J. D. see Candau, R. B., 31:1441
Rouzier, P. A. see Sayers, S. P., 31:1697
Rubin, S. S. see Rimmer, J. H., 31:613
Rundell, K. W. see Foster, C., 31:1433
Rusko, H. K. see Paavolainen, L. M., 31:124
Ruthven, M. D. see Stanforth, P. R., 31:183
Ryan, D. see Grundy, S. M., 31:1493, 31:S502
Ryberg, J. Book Review, 31:1231

S

Saborido, A. see Lucia, A., 31:1414
Saborido, A. see Molano, F., 31:243
Safran, M. R., Benedetti, R. S., Bartolozzi, A. R., III, and Mandelbaum, B. R. Lateral ankle sprains: a comprehensive review: Part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429
Safran, M. R., O'Malley, D. F., Jr., and Fu, F. H. Peroneal tendon subluxation in athletes: new exam technique, case reports, and review, 31:S487
Safran, M. R., Zachazewski, J. E., Benedetti, R. S., Bartolozzi, A. R., III, and Mandelbaum, R. Lateral ankle sprains: a comprehensive review: Part 2: treatment and rehabilitation with an emphasis on the athlete, 31:S438
Sallis, J. F. see Nichols, J. F., 31:908
Sallis, R., and Chassay, C. M. Recognizing and treating common cold-induced injury in outdoor sports, 31:1367
Santini, M. see Biffi, A., 31:359
Sarkin, J. A. see Nichols, J. F., 31:908
Sarna, S. see Kujala, U. M., 31:1041
Sato, A., Koike, A., Koyama, Y., Yajima, T., Marumo, F., and Hiroe, M. Effects of posture on left ventricular diastolic filling during exercise, 31:1564
Saunders, M. J. see Evans, E. M., 31:1778
Savonen, K. see Hausswirth, C., 31:599
Sawka, M. N. see O'Brien, C., 31:1466
Sayers, S. P., Clarkson, P. M., Rouzier, P. A., and Kamen, G. Adverse events associated with eccentric exercise protocols: six case studies, 31:1697
Sayers, S. P., Harackiewicz, D. V., Harman, E. A., Frykman, P. N., and Rosenstein, M. T. Cross-validation of

- three jump power equations, 31:572
- Schabert, E. J., Bosch, A. N., Weltan, S. M., and Noakes, T. D.** The effect of a preexercise meal on time to fatigue during prolonged cycling exercise, 31:464
- Scheffeld-Moore, M.** see Bolster, D. R., 31:251
- Schlosser, D. A.** see Mastro, A. M., 31:74
- Schmid, P.** see Pokan, R., 31:903
- Schmidt, O.** see Baum, K., 31:595
- Schmidt, W., Rojas, J., Böning, D., Bernal, H., Garcia, S., and Garcia, O.** Plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406
- Schneider, C. M.** see Hayward, R., 31:414
- Schneiderman, N.** see Perna, F. M., 31:973
- Schouten, E. G.** see Schuit, A. J., 31:816
- Schrage, W. G.** see Laughlin, M. H., 31:1027
- Schroeder, E. T.** see Hawkins, S. A., 31:1287
- Schuit, A. J., van Amelsvoort, L. G. P. M., Verheij, T. C., Rijnke, R. D., Maan, A. C., Swenne, C. A., and Schouten, E. G.** Exercise training and heart rate variability in older people, 31:816
- Schulze, K. M.** see Bolster, D. R., 31:251
- Schurer, W.** see Kriemler, S., 31:774
- Schutz, Y.** see Herren, R., 31:1053
- Schwartz, R.** see McTiernan, A., 31:1307
- Sebastianelli, W. J.** see Bush, J. A., 31:554
- Sebastianelli, W. J.** see Kraemer, W. J., 31:1320
- Seidell, J. C., Visscher, T. L. S., and Hoogeveen, R. T.** Overweight and obesity in the mortality rate data: current evidence and research issues, 31:S597
- Serfass, R. C.** see Gaskill, S. E., 31:1211
- Serratosa, L.** see Lucia, A., 31:1414
- Shaffer, R. A.** see Almeida, S. A., 31:1176, 31:1807
- Shapiro, R.** see Brindle, T. J., 31:1394
- Shapiro, Y.** see Epstein, Y., 31:224
- Sharma, S.** see Whyte, G. P., 31:1237
- Sheehan, F. T., and Drace, J. E.** Quantitative MR measures of three-dimensional patellar kinematics as a research and diagnostic tool, 31:1399
- Sheel, A. W.** see McKenzie, D. C., 31:99
- Shellock, F. G.** see Horigan, J. M., 31:1361
- Shellock, F. G.** see Powers, C. M., 31:1714
- Shellock, F. G., Stone, K. R., and Crues, J. V.** Development of clinical application of kinematic MRI of the patellofemoral joint using an extremity MR system, 31:788
- Shemer, J.** see Epstein, Y., 31:224
- Shepherd, R. J.** see Trudeau, F., 31:111
- Sherman, R. A.** see Lauder, T. D., 31:1265
- Sherman, W. M.** see Capriotti, P. V., 31:913
- Shim, J.-H.** see Chow, J. W., 31:846, 31:855
- Shimojo, H.** see Akima, H., 31:588
- Shirot, T.** see Imamura, H., 31:342
- Shoemaker, J. K., and Hughson, R. L.** Adaptation of blood flow during the rest to work transition in humans, 31:1019
- Short, K. R.** see Bolster, D. R., 31:251
- Sicart, M.-T.** see Audran, M., 31:639
- Sidney, M.** see Pelayo, P., 31:1839
- Siebold, R.** see Strobel, G., 31:560
- Sievänen, H.** see Kontulainen, S., 31:646
- Simoneau, J.-A.** see Rivera, M. A., 31:698
- Simpson, T.** see Buckley, J. P., 31:1721
- Singh, A.** see Deuster, P. A., 31:1799
- Singh, A., Papanicolaou, D. A., Lawrence, L. L., Howell, E. A., Chrousos, G. P., and Deuster, P. A.** Neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536
- Skinner, J. S.** see Rivera, M. A., 31:698
- Skinner, J. S.** see Stanforth, P. R., 31:183
- Skinner, J. S., Wilmore, K. M., Jaskolska, A., Jaskolski, A., Daw, E. W., Rice, T., Gagnon, J., Leon, A. S., Wilmore, J. H., Rao, D. C., and Bouchard, C.** Reproducibility of maximal exercise test data in the HERITAGE Family Study, 31:1623
- Skrinar, G. S.** see Williams, N. I., 31:949
- Slate, S.** see McTiernan, A., 31:1307
- Sleivert, G. G.** see Caird, S. J., 31:717
- Sloan, R. A.** see Halton, R. W., 31:1613
- Slotboom, J.** see Kreis, R., 31:1770
- Smekal, G.** see Pokan, R., 31:903
- Smit, E.** see Crespo, C. J., 31:1821
- Smith, D. L.** see Fehling, P. C., 31:171
- Smith, D. R.** Book Review, 31:494
- Smith, I.** see Pitsiladis, Y. P., 31:1570
- Smith, J. A.** see Woods, J. A., 31:57
- Smith, M.** see Baranowski, T., 31:1619
- Smith, S. A., Gallagher, K. M., Norton, K. H., Querry, R. G., Welch-O'Connor, R. M., and Raven, P. B.** Ventilatory responses to dynamic exercise elicited by intramuscular sensors, 31:277
- Smith, T. P., McNaughton, L. R., and Marshall, K. J.** Effects of 4-wk training using V_{max}/T_{max} on VO_{2max} and performance in athletes, 31:892
- Snow, C. M.** see Witzke, K. A., 31:1558
- Snow, T. K.** see Collins, M. A., 31:1350
- Snyder, A. C.** see Foster, C., 31:1433
- Snyder-Mackler, L.** see Eastlack, M. E., 31:210
- Sohar, E.** see Epstein, Y., 31:224
- Somogyi, D. M.** Book Review, 31:356
- Sonnad, S.** Book Review, 31:355
- Soto-Debeuf, G.** see Anoshiravani, M., 31:969
- Spada, R.** see Biffi, A., 31:359
- Spadaro, J. A.** see Webster, D. A., 31:938
- Spano, M. A.** see Evans, E. M., 31:1778
- Sparling, P. B.** see Collins, M. A., 31:1350
- Sparto, A.** see Herren, R., 31:1053
- Spataro, A.** see Biffi, A., 31:359
- Spatz, P.** see Foster, C., 31:578
- Speedy, D. B., Noakes, T. D., Rogers, I. R., Thompson, J. M. D., Campbell, R. G. D., Kuttner, J. A., Boswell, D. R., Wright, S., and Hamlin, M.** Hyponatremia in ultradistance triathletes, 31:809
- Stager, J. M.** see Chapman, R. F., 31:658
- St.-Amand, J., Prud'homme, D., Moorjani, S., Nadeau, A., Tremblay, A., Bouchard, C., Lupien, P. J., and Després, J.-P.** Apolipoprotein E polymorphism and the relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692
- Stanforth, P. R., Ruthven, M. D., Gagnon, J., Bouchard, C., Leon, A. S., Rao, D. C., Skinner, J. S., and Wilmore, J. H.** Accuracy of prediction equations to estimate submaximal VO_2 during cycle ergometry: The HERITAGE Family Study, 31:183
- Stanley, R. K., Protas, E. J., and Jankovic, J.** Exercise performance in those having Parkinson's disease and healthy normals, 31:761
- Staron, R. S.** see Volek, J. S., 31:1147
- Staschen, B.** see Hebestreit, H., 31:1218
- St. Croix, C. M.** see Paterson, D. H., 31:1813
- Stecker, K.** see Reuter, I., 31:1544
- Stefanick, M. L.** Physical activity for preventing and treating obesity-related dyslipoproteinemias, 31:S609
- Stefanyshyn, D. J.** see Nigg, B. M., 31:S421
- Steffen, J.** see Peterson, A. T., 31:1844
- Stephens, T. J.** see McConell, G. K., 31:386
- Stepsto, N. K., Hawley, J. A., Dennis, S. C., and Hopkins, W. G.** Effects of different interval-training programs on cycling trial performance, 31:736
- Stergiou, N., Bates, B. T., and James, S. L.** Asynchrony between subltar and knee joint function during running, 31:1645
- Sternberg, E. M.** see Deuster, P. A., 31:1799
- Stine, R.** see Brindle, T. J., 31:1394
- Stokes, W. L.** see Hertel, J., 31:1501
- Stone, K. R.** see Shellock, F. G., 31:788
- Storms, W. W.** Exercise-induced asthma: diagnosis and treatment for the recreational or elite athlete, 31:S33
- Straßburg, H. M.** see Hebestreit, H., 31:1218
- Strachan, A. T., and Maughan, R. J.** The hormonal response to a d-fenfluramine challenge in trained and sedentary men, 31:547
- Stray-Gundersen, J.** see Foster, C., 31:1433
- Strobel, G., Freidmann, B., Siebold, R., and Bärtsch, P.** Effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560
- Subbiah, M. T. R.** see Case, D., 31:1390
- Sucher, K. P.** see DeMarco, H. M., 31:164
- Sumida, K. D.** see Frisch, F., 31:664
- Suminski, R. R.** see Kang, J., 31:82
- Susaki, T.** see Bhambhani, Y., 31:90
- Sutton, J. R.** see Raymond, J., 31:822
- Swain, D. P.** see Liedl, M. A., 31:1472
- Swain, D. P.** see Wright, R. L., 31:1793
- Swan, P. D., and McConnell, K.** Anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068
- Swenne, C. A.** see Schuit, A. J., 31:816
- Swensen, T. C., Harnish, C. R., Beitman, L., and Keller, B. A.** Noninvasive estimation of the maximal lactate steady state in trained cyclists, 31:742

T

- Taaffe, D. R., Duret, C., Cooper, C. S., and Marcus, R.** Comparison of calcaneal ultrasound and DXA in young women, 31:1484
- Tabata, I.** see Ogita, F., 31:729
- Takahashi, H.** see Akima, H., 31:588
- Talutto, C.** see Perna, F. M., 31:973
- Tan, A. W. H.** see Pronk, N. P., 31:1535
- Tanaka, M., Kinukawa, N., Akazawa, K., Abe, S., Itoh, K., Imai, K., Masuda, T., and Nakamura, M.** The available period

and kind of exercise for increasing osteo sono assessment index in women, 31:1709

Tarnopolsky, M. see Bourgeois, J., 31:4
Tarnopolsky, M. A. see MacDougall, J. D., 31:1876

Taylor, W. C., Blair, S. N., Cummings, S. S., Wun, C. C., and Malina, R. M. Childhood and adolescent physical activity patterns and adult physical activity, 31:118
Telser, A. Book Review, 31:624

Temple, J. D. see Almekinders, L. C., 31:353

Terkelsen, K. E., Clark, A. L., and Hillis, W. S. Ventilatory response to erect and supine exercise, 31:1429

Terry, L. see Haug, R. C., 31:619

Terry, L. see Peterson, A. T., 31:1844

Testa, V., Capasso, G., Maffulli, N., and Bifulco, G. Ultrasound-guided percutaneous longitudinal tenotomy for the management of patellar tendinopathy, 31:1509

Thayer, R. see Petrella, R. J., 31:1163

Thiriet, P. see Gozal, D., 31:1522

Thometz, N. see Foster, C., 31:1433

Thomis, M. see Beunen, G., 31:653

Thompson, C. J., and Bembien, M. G. Reliability and comparability of the accelerometer as a measure of muscular power, 31:897

Thompson, J. M. D. see Speedy, D. B., 31:809

Thompson, W. see Owens, S., 31:143

Thompson, W. O. see Baranowski, T., 31:1619

Thornell, L.-E. see Kadi, F., 31:1528

Tihanyi, J. see Kovács, I., 31:708

Tilkemeier, P. see Engebretson, T. O., 31:216

Tilman, K. see Foster, C., 31:1157

Tolfrey, K., Campbell, I. G., and Jones, A. M. Selected predictor variables and the lipid-lipoprotein profile of prepubertal girls and boys, 31:1550

Tong, R. J. see Palmer, A. S., 31:1336

Topin, N. see Ahmadi, S., 31:1076

Topka, H. see Mayer, F., 31:1085

Toth, M. J., Beckett, T., and Poehlman, E. T. Physical activity and the progressive change in body composition with aging: current evidence and research issues, 31:S590

Trappe, S. W. see Bolster, D. R., 31:251

Treasure, D. C. see Lox, C. L., 31:1060

Tremblay, A. see St.-Amand, J., 31:692

Tremblay, A., and Drapeau, V. Physical activity and preference for selected macronutrients, 31:S584

Tremblay, J. see Trudeau, F., 31:111

Triplett-McBride, N. T. see Bush, J. A., 31:554

Triplett-McBride, N. T. see Kraemer, W. J., 31:1320

Trone, D. W. see Almeida, S. A., 31:1807
Trudeau, F., Laurencelle, L., Tremblay, J., Rajic, M., and Shephard, R. J. Daily primary school physical education: effects on physical activity during adult life, 31:111

Tryniecki, J. L. see Haltom, R. W., 31:1613

Tschakovsky, M. E. see Hughson, R. L., 31:1005

Tschan, H. see Pokan, R., 31:903

Tsintzas, K. see Nicholas, C. W., 31:1280

Turnbull, B. A. see Williams, N. I., 31:949

Turnock, B. J. Book Review, 31:356

U

Ulrich, C. M. see McTiernan, A., 31:1307
Unnithan, V. B., Dowling, J. J., Frost, G., and Bar-Or, O. Role of mechanical power estimates in the O_2 cost of walking in children with cerebral palsy, 31:1703

Urbach, D., Nebelung, W., Weiler, H.-T., and Awiszus, F. Bilateral deficit of voluntary quadriceps muscle activation after unilateral ACL tear, 31:1691

Utter, A. C. see Kang, J., 31:82

V

Väisänen, S. B. see Rauramaa, R., 31:S631

Valenti, G. see Di Bello, V., 31:514

Valenzano, D. P. Book Review, 31:194

Valone, S. E. see Rich, J. D., 31:207

van Amelsvoort, L. G. P. M. see Schuit, A. J., 31:816

van As, H. H. J. see Dallmeijer, A. J., 31:1330

van Croonenborg, J. J. see van der Woude, L. H. V., 31:331

Vandenbergh, K., Van Hecke, P., Van Leemputte, M., Vanstapel, F., and Hespel, P. Phosphocreatine resynthesis is not affected by creatine loading, 31:236
van den Bogert, A. J. see Neptune, R. R., 31:294

van den Bogert, A. J., Read, L., and Nigg, B. M. An analysis of hip joint loading during walking, running, and skiing, 31:131

Vanderburgh, P. M., and Batterham, A. Validation of the Wilks powerlifting formula, 31:1869

van der Woude, L. H. V. see Dallmeijer, A. J., 31:1111, 31:1330

van der Woude, L. H. V., van Croonenborg, J. J., Wolff, I., Dallmeijer, A. J., and Hollander, A. P. Physical work capacity after 7 wk of wheelchair training: effect of intensity in able-bodied subjects, 31:331

van Emmerik, R. E. A. see Heiderscheit, B. C., 31:1313

Van Hecke, P. see Vandenbergh, K., 31:236

Van Leemputte, M. see Vandenbergh, K., 31:236

van Oost, P. see de Bourdeaudhuij, I., 31:605

Vanstapel, F. see Vandenbergh, K., 31:236

van Zandwijk, J. P. see Bobbert, M. F., 31:303

Vardon, G. see Ahmadi, S., 31:1076

Veicsteinas, A. see Pogliaghi, S., 31:149

Veith, A. see Jordan, J., 31:362

Ventura, J. L. see Rodriguez, F. A., 31:264

Verdile, L. see Biffi, A., 31:359

Verheij, T. C. see Schuit, A. J., 31:816

Virk, R. S., Dunton, N. J., Young, J. C., and Leklem, J. E. Effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400

Viscor, G. see Rodriguez, F. A., 31:264

Visscher, T. L. S. see Seidell, J. C., 31:S597

Volek, J. S. see Bush, J. A., 31:554

Volek, J. S. see Kraemer, W. J., 31:1320

Volek, J. S., Duncan, N. D., Mazzetti, S. A., Staron, R. S., Putukian, M., Gómez, A. L., Pearson, D. R., Fink, W. J., and Kraemer, W. J. Performance and muscle fiber adaptations to creatine supplementation and heavy resistance training, 31:1147

von Duvillard, S. P. see Pokan, R., 31:903

von Duvillard, S. P. see Roi, G. S., 31:723
Vrabas, I. S., Dodd, S. L., Powers, S. K., Hughes, M., Coombes, J., Fletcher, L., Demirel, H., and Reid, M. B. Endurance training reduces the rate of diaphragm fatigue in vitro, 31:1605

Vuori, I. see Kontulainen, S., 31:646

W

Wajswelner, H. see Warden, S. J., 31:1656

Walker, G. see Kamber, M., 31:1763

Walker, J. L., Murray, T. D., Jackson, A. S., Morrow, J. R., Jr., and Michaud, T. J. The energy cost of horizontal walking and running in adolescents, 31:311

Wallace, M. B., Lim, J., Cutler, A., and Bucci, L. Effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788

Walters, M. R. see McLean, S. G., 31:959

Wang, S.-T. see Lin, Y.-S., 31:1594

Warburton, D. E. R., Gledhill, N., Jamnik, V. K., Krip, B., and Card, N. Induced hypervolemia, cardiac function, VO_{2max} , and performance of elite cyclists, 31:800

Warden, S. J., Wajswelner, H., and Bennell, K. L. Comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

Ward-Smith, A. J. Aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855

Warner, S. E. see Fehling, P. C., 31:171

Wasley, D. A. see Lox, C. L., 31:1060

Weaver, N. L., Mueller, F. O., Kalsbeek, W. D., and Bowling, J. M. The North Carolina High School Athletic Injury Study: design and methodology, 31:176

Webb, S. A. see Collins, M. A., 31:1350

Webster, D. A., Bayliss, G. V., and Spadaro, J. A. Head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

Wee, S.-L., Williams, C., Gray, S., and Horabin, J. Influence of high and low glycemic index meals on endurance running capacity, 31:393

Weiler, H.-T. see Urbach, D., 31:1691

Weinstein, H. see Foster, C., 31:1157

Welch-O'Connor, R. M. see Smith, S. A., 31:277

Weitman, S. M. see Schabert, E. J., 31:464

Westertorp, K. R. Assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

Whaley, M. H., Kampert, J. B., Kohl, H. W., III, and Blair, S. N. Physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

Whiting, B. Book Review, 31:1084

Whyte, G. P., Sharma, S., George, K., and McKenna, W. J. Exercise gas exchange responses in the differentiation of pathologic and physiologic left

ventricular hypertrophy, 31:1237
Wiebe, C. G., Gledhill, N., Jamnik, V. K., and Ferguson, S. Exercise cardiac function in young through elderly endurance trained women, 31:684
Wilk, B. see Kriemler, S., 31:774
Wille, F. see Pelayo, P., 31:1839
Williams, C. see Nicholas, C. W., 31:1280
Williams, C. see Wee, S.-L., 31:393
Williams, K. M. see Almeida, S. A., 31:1176
Williams, M. V. see Lauder, T. D., 31:1265
Williams, N. I., Bullen, B. A., MacArthur, J. W., Skrinar, G. S., and Turnbull, B. A. Effects of short-term strenuous endurance exercise upon corpus luteum function, 31:949
Willson, J. D., and Kernozeck, T. W. Plantar loading and cadence alterations with fatigue, 31:1828
Wilmore, J. H. see Rivera, M. A., 31:698
Wilmore, J. H. see Skinner, J. S., 31:1623
Wilmore, J. H. see Stanforth, P. R., 31:183
Wilmore, K. M. see Skinner, J. S., 31:1623
Wilson, B. A. see Frisbee, J. C., 31:1293
Wilson, W. M. see Kriemler, S., 31:774
Winett, R. A., and Carpinelli, R. N. The quantity and quality of exercise for healthy adults, 31:916
Wing, R. R. see Jakicic, J. M., 31:747
Wing, R. R. Physical activity in the treatment of the adulthood overweight and

obesity: current evidence and research issues, 31:S547
Winslow, C. Book Review, 31:1357
Winters, C. see Jakicic, J. M., 31:747
Wirtz, S. see Covey, M. K., 31:1257
Wisloff, U. see Hoff, J., 31:870
Wiswell, R. A. see Hawkins, S. A., 31:1287
Witzke, K. A., and Snow, C. M. Lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558
Wolfe, L. A. see Brenner, I. K. M., 31:792
Wolff, I. see van der Woude, L. H. V., 31:331
Wolin, P. M. see Cooper, M. E., 31:S493
Womack, C. J. see Gardner, A. W., 31:980
Wong, M.-K. see Lan, C., 31:634
Wood, G. A. see Kuster, M. S., 31:368
Wood, J. G. Book Review, 31:192
Woods, C. Book Review, 31:1689
Woods, J. A. see Ceddia, M. A., 31:829
Woods, J. A., Davis, J. M., Smith, J. A., and Nieman, D. C. Exercise and cellular innate immune function, 31:57
Wright, I. C. see Neptune, R. R., 31:294
Wright, R. L., Swain, D. P., and Branch, J. D. Blood pressure responses to acute static and dynamic exercise in three racial groups, 31:1793
Wright, S. see Speedy, D. B., 31:809
Wrigley, T. see Crossley, K., 31:1088

Wu, Q. F. see Bodary, P. F., 31:543
Wun, C. C. see Taylor, W. C., 31:118

Y

Yajima, T. see Sato, A., 31:1564
Yancey, D. see McTiernan, A., 31:1307
Yang, B.-C. see Lin, Y.-S., 31:1594
Yasui, Y. see McTiernan, A., 31:1307
Yoshimura, Y. see Imamura, H., 31:342
Young, A. J. see O'Brien, C., 31:1466
Young, H. see Foster, C., 31:1157
Young, J. C. see Virk, R. S., 31:400
Youngstedt, S. D., Kripke, D. F., and Elliott, J. A. Is sleep disturbed by vigorous late-night exercise?, 31:864

Z

Zachazewski, J. E. see Safran, M. R., 31:S438
Zahm, S. H., Hoffman-Goetz, L., Dosemeci, M., Cantor, K. P., and Blair, A. Occupational physical activity and non-Hodgkin's lymphoma, 31:566
Zehnder, M. see Rico-Sanz, J., 31:1580, 31:1587
Zelazowska, E. B. see Deuster, P. A., 31:1799
Zuckerman, J. H. see Garcia, J. A., 31:269
Zweers, M. see Peters, H. P. F., 31:767

STATEMENT OF OWNERSHIP MANAGEMENT AND CIRCULATION (Required by 39 U.S.C. 3685)

1. Publication Title: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE
2. Publication no.: 0195-9131. 3. Filing date: 10-01-99. 4. Frequency of issue: Monthly
5. No. of issues published annually: 12; 6. Annual subscription price: \$ 185.00
7. Complete mailing address of known office of publication: 401 West Michigan Street, Indianapolis IN 46202-3233
8. Complete mailing address of the headquarters of general business offices of the publisher: 401 West Michigan Street, Indianapolis IN 46202-3233.
9. Full names and complete mailing address of publisher, editor, and managing editor: Publisher: Lippincott Williams & Wilkins, Inc., 227 East Washington Square, Philadelphia, PA 19106; Editor: Peter B. Raven, Ph.D., University of North Texas Health Sciences Center at Fort Worth, 3500 Camp Bowie Blvd, Fort Worth TX 76106; Managing Editor: Alisa Perrel, MSSE Editorial Office, 401 West Michigan Street, Indianapolis IN 46202. 10. Owner: American College of Sports Medicine, c/o D. Mark Robertson, Assistant Executive Vice President, 401 West Michigan Street, Indianapolis IN 46202-3233. 11. Known bondholders, mortgagees, and other security holders owning or holding 1% or more of total amount of bonds, mortgages, or other securities: None.
12. Purpose, function, and nonprofit status: Has not changed during preceding 12 months.
13. Publication Name: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE
14. Issue Date for circulation data: Volume 31, Issue 8.
15. Extent and nature of circulation: Average number of copies each issue during preceding 12 months: (a) Total No. copies (Net Press Run), 23,100. (b) Paid and/or requested circulation: (1) Paid/requested outside-county mail subscriptions stated on form 3541. (Include advertiser's proof and exchange copies), 15,926; (2) Paid in-county subscriptions (include advertiser's proof and exchange copies), N/A; (3) Sales through dealers and carriers, street vendors, counter sales, and other non-USPS paid distribution, N/A; (4) Other classes mailed through the USPS, N/A. (c) Total paid and/or requested circulation (sum of 15b (1), (2), (3), and (4)), 15,926. (d) Free distribution by mail (samples, complimentary, and other free). (1) Outside-county as stated on form 3541, 158; (2) In country as stated on form 3541, N/A; (3) Other classes mailed through the USPS, N/A. (e) Free distribution outside the mail (carriers or other means), N/A. (f) Total free distribution (sum of 15d and 15e), 158. (g) Total distribution (Sum of 15c and 15f) 16,084. (h) Copies not distributed, 7017 (i) Total (sum of 15g and h), 23,100. (j) Percent paid and/or requested circulation (15c divided by 15g times 100) 99%. No. copies of single issue published nearest to filing date: (a) Total no. copies (Net Press Run), 23,000. (b) Paid and/or requested circulation: (1) Paid/requested outside-county mail subscriptions stated on form 3541, (Include advertiser's proof and exchange copies), 17,332; (2) Paid in-county subscriptions (include advertiser's proof and exchange copies), N/A; (3) Sales through dealers and carriers, street vendors, counter sales, and other non-USPS paid distribution, N/A; (4) Other classes mailed through the USPS, N/A. (c) Total paid and/or requested circulation (sum of 15b (1), (2), (3), and (4)), 17,332. (d) Free distribution by mail (samples, complimentary, and other free). (1) Outside-county as stated on form 3541, 169; (2) In-county as stated on form 3541, N/A; (3) Other classes mailed through the USPS, N/A. (e) Free distribution outside the mail (carriers or other means), N/A. (f) Total free distribution (sum of 15d and 15e), 169. (g) Total distribution (Sum of 15c and 15f), 17,501. (h) Copies not distributed, 5499. (i) Total (sum of 15g and h), 23,000. (j) Percent paid and/or requested circulation (15c divided by 15g x 100), 99%.
16. This Statement of Ownership will be printed in volume 31, issue 12 of this publication.
17. I certify that the statements made by me above are correct and complete.

Abbe Nelson

Manager, Periodical Operations

KEY WORD LISTING

A

Abdominal exercise, comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

Abdominal fat

is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:S568

physical activity and weight gain and fat distribution changes with menopause, 31:S564

Abscess, related to anabolic-androgenic steroid injection, 31:207

Absorptiometry

available period and kind of exercise for increasing osteo sono assessment index in, 31:1709

comparison of calcaneal ultrasound and DXA in young women, 31:1484

effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778

impact of bone mineral estimates on percent fat estimates from four-component model, 31:1861

Accelerometry

accuracy of TriTrac-R3D accelerometer to estimate energy expenditure, 31:747

analysis of hip joint loading during walking, running, and skiing, 31:131

assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

prediction of speed and incline in outdoor running in humans using, 31:1053

reliability and comparability of accelerometer as measure of muscular power, 31:897

validity, reliability, and calibration of TriTrac accelerometer as measure of physical activity, 31:908

ACSM position stand, recommendations for cardiovascular screening, staffing, and emergency policies at health/fitness facilities (letter), 31:353

Activities of daily living, physical performance in persons with spinal cord injuries after discharge from rehabilitation, 31:1111

Acute mountain sickness, brain magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969

Adenosine triphosphate, noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

Adhesion molecules

acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise, 31:74

Adolescents

See also Children
childhood and adolescent physical activity patterns and adult physical activity, 31:118

comparison of four habitual physical activity questionnaires in girls aged 7-15 yr, 31:421

comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190

differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829

energy cost of horizontal walking and running in, 31:311

foot and ankle problems in young athlete, 31:S470

head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558

low back pain in elite rhythmic gymnasts, 31:1686

North Carolina High School Athletic Injury Study, 31:176

physical activity in treatment of childhood overweight and obesity, 31:S553

single-leg Wingate test in children: reliability and optimal braking force, 31:1218

stress fracture of proximal fibula in young soccer player, 31:925

youth ice hockey tournament injuries, 31:46

Adrenocorticotrophic hormone

acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Aerobic capacity

aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855

intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264

interval training at maximal oxygen uptake: effects on aerobic performance and overtraining markers, 31:156

physical performance during rehabilitation in persons with spinal cord injuries, 31:1330

physical work capacity after 7 weeks of wheelchair training: effect of intensity in able-bodied subjects, 31:331

stability of blood lactate-heart rate relationship in competitive athletes, 31:578

systolic and diastolic cardiac function time intervals and exercise capacity in, 31:258

utility of pwc75% as estimate of aerobic power in epidemiological and population-based studies, 31:348

validity of modified aerobic fitness test for adults with mental retardation, 31:1849

Aerodynamics

comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665

racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677

Aging

See also Older adults
basophil releasability in young highly trained and older athletes, 31:507

cardiovascular responses to facial cooling are age and fitness dependent, 31:1163

differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829

effects of progressive resistance training on bone density, 31:25

mechanical ventilatory constraints in aging, lung disease, and obesity, 31:S12

physical activity and progressive change in body composition with, 31:S590

physical activity and weight gain and fat distribution changes with menopause, 31:S564

Airway function

See also Asthma
control during and after exercise in asthmatics, 31:S4

European perspective: new dimensions in pulmonary research, 31:S1

Alcohol intake, cluster-analytical approach toward physical activity and other health related behaviors, 31:605

Aldosterone, plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

Allometric scaling, validation of Wilks powerlifting formula, 31:1869

Altitude effects

brain magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969

comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665

marathons in altitude, 31:723

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

Amenorrhea

See also Menstrual cycle
effects of short-term strenuous endurance exercise on corpus luteum function, 31:949

weight and diet concerns in Finnish female and male athletes, 31:229

Amino acids

acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583

- effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400
- Anabolic-androgenic steroids**
- abscess related to injection of, 31:207
 - effects of anabolic steroids on muscle cells of strength-trained athletes, 31:1528
 - effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788
 - effects on weight-lifters' myocardium: ultrasonic videodensitometric study, 31:514
 - rat liver lysosomal and mitochondrial activities modified by, 31:243
 - temporal effects of testosterone propionate injections on serum lipoprotein concentrations in rats, 31:664
- Anaerobic capacity**
- aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855
 - effect of hand paddles on anaerobic energy release during supramaximal swimming, 31:729
 - is determination of exercise intensities as percentages of maximal oxygen uptake or maximal heart rate adequate?, 31:1342
 - maximal accumulated oxygen deficit must be calculated using 10-min time periods, 31:1346
 - noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742
 - responses to training in cross-country skiers, 31:1211
 - stability of blood lactate-heart rate relationship in competitive athletes, 31:578
- Angiogenesis**, exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599
- Ankle**
- ankle injuries: same joint, different sports, 31:S409
 - asynchrony between subtalar and knee joint function during running, 31:1645
 - biomechanics of unstable ankle joint and clinical implications, 31:S459
 - etiologic factors associated with Achilles tendinitis in runners, 31:1374
 - foot and ankle problems in young athlete, 31:S470
 - imaging of foot and ankle in injured athlete, 31:S412
 - lateral ankle sprains. part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429
 - lateral ankle sprains. part 2: treatment and rehabilitation with emphasis on athlete, 31:S438
 - muscle coordination and function during cutting movements, 31:294
 - os trigonum syndrome with flexor hallucis longus tenosynovitis in professional football referee, 31:S493
 - peroneal tendon subluxation in athletes, 31:S487
 - prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702
 - talocrural and subtalar joint instability after lateral ankle sprain, 31:1501
- Anterior cruciate ligament (ACL)**
- benefits of wearing compression sleeve after reconstruction of, 31:368
 - bilateral deficit of voluntary quadriceps muscle activation after unilateral ACL tear, 31:1691
 - knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959
 - laxity, instability, and functional outcome after injury of: copers versus noncopers, 31:210
- Anthropometry**, and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068
- Antidiuretic hormone**, plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406
- Antioxidants**
- antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594
 - effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390
 - exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987
- Anxiety**
- influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456
 - quality of life and anxiety in phase II cardiac rehabilitation program, 31:216
- Apoptosis**, antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594
- Arterial oxygen saturation**
- degree of arterial desaturation in normoxia influences maximal oxygen uptake decline in mild hypoxia, 31:658
 - effect of repeat exercise on pulmonary diffusing capacity and exercise-induced arterial hypoxemia in trained athletes, 31:99
- Aspartate aminotransferase**, effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414
- Asthma**
- control of airway function during and after exercise in asthmatics, 31:S4
 - energy metabolism during anaerobic exercise in children with cystic fibrosis and, 31:1242
 - European perspective: new dimensions in pulmonary research, 31:S1
 - exercise-induced: diagnosis and treatment for recreational or elite athlete, 31:S33
- Athletes**
- abscess related to anabolic-androgenic steroid injection, 31:207
 - acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748
 - ankle injuries: same joint, different sports, 31:S409
 - architectural characteristics of muscle in black and white college football players, 31:1448
 - basophil releasability in young highly trained and older athletes, 31:507
 - bilateral segmental dystonia in professional tennis player, 31:1085
 - biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717
 - changes in bone mineral content with decreased training in competitive young adult tennis players and controls: prospective 4-yr follow-up, 31:646
 - comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665
 - comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595
 - competitive, stability of blood lactate-heart rate relationship in, 31:578
 - comprehensive and cost-effective preparticipation exam implemented on World Wide Web, 31:1727
 - degree of arterial desaturation in normoxia influences maximal oxygen uptake decline in mild hypoxia, 31:658
 - design and analysis of research on sport performance enhancement, 31:472
 - discus throwing performances and medical classification of wheelchair athletes, 31:1272
 - effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390
 - effect of repeat exercise on pulmonary diffusing capacity and exercise-induced arterial hypoxemia in trained athletes, 31:99
 - effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560
 - effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892
 - effects of acute exercise on plasma erythropoietin levels in trained runners, 31:543
 - effects of anabolic steroids on muscle cells of strength-trained athletes, 31:1528
 - effects of ballistic training on preseason preparation of elite volleyball players, 31:323
 - effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599
 - effects of different interval-training programs on cycling time-trial performance, 31:736
 - effects of erythropoietin administration in training athletes and possible indirect detection in doping control, 31:639
 - effects of precooling on thermoregulation during subsequent exercise, 31:251
 - effects of proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460
 - effects of strength training on endurance performance and muscle characteristics, 31:886
 - ethics of blood testing as element of doping control in sport, 31:497
 - etiologic factors associated with Achilles tendinitis in runners, 31:1374
 - evaluation of BOD POD[®] for assessing body fat in collegiate football players, 31:1050
 - exercise cardiac function in young through elderly endurance trained women, 31:684
 - exercise-induced asthma: diagnosis and treatment for recreational or elite athlete, 31:S33
 - foot and ankle problems in young athlete, 31:S470
 - forefoot problems in, 31:S448

head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

heart attacks and lower-limb function in master endurance athletes, 31:1041

hematocrits of triathletes: is monitoring useful?, 31:372

hyponatremia in ultradistance triathletes, 31:809

imaging of foot and ankle in injured athlete, 31:S412

induced hypervolemia, cardiac function, maximal oxygen uptake, and performance of elite cyclists, 31:800

lack of correlation between ventricular late potentials and left ventricular mass in top-level male athletes, 31:359

lateral ankle sprains. part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429

lateral ankle sprains. part 2: treatment and rehabilitation with emphasis on athlete, 31:S438

level ground and uphill cycling ability in professional road cycling, 31:878

long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108

low back pain in elite rhythmic gymnasts, 31:1686

maximal strength training improves work economy in trained female cross-country skiers, 31:870

measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226

muscle control in elite alpine skiing, 31:1065

muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587

noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742

noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

North Carolina High School Athletic Injury Study, 31:176

one-day maximal lactate steady-state assessment protocol for trained runners, 31:1336

os trigonum syndrome with flexor hallucis longus tenosynovitis in professional football referee, 31:S493

peroneal tendon subluxation in athletes, 31:S487

physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205

physiological effects of constant versus variable power during endurance cycling, 31:1472

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677

reduced resting metabolic rate in athletes with menstrual disorders, 31:1250

responses to training in cross-country skiers, 31:1211

salivary IgA levels and infection risk in elite swimmers, 31:67

shoe inserts and orthotics for sport and physical activities, 31:S421

short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414

sport performance enhancement: design and analysis of research (letter), 31:755

stress fracture of proximal fibula in young soccer player, 31:925

stroking parameters in top level swimmers with a disability, 31:1839

ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

ventilatory responses during experimental cycle-run transition in triathletes, 31:1422

weight and diet concerns in Finnish female and male athletes, 31:229

weight control in wrestling: eating disorders or disordered eating?, 31:1382

youth ice hockey tournament injuries, 31:46

Atrial natriuretic peptide, plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

Augmented soft tissue mobilization therapy, fibroblast responses to variation in soft tissue mobilization pressure, 31:531

Autonomic responses, cardiovascular responses to facial cooling are age and fitness dependent, 31:1163

B

Back pain

comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

low back pain in elite rhythmic gymnasts, 31:1686

low back strengthening for prevention and treatment of low back pain, 31:18

physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Basic fibroblast growth factor, exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599

Basophils, releasability in young highly trained and older athletes, 31:507

Behavior. See also Psychobiology and social sciences

abnormal eating behaviors in military women, 31:1265

cluster-analytical approach toward physical activity and other health related behaviors, 31:605

obesity, fitness, and willingness to communicate and health care costs, 31:1535

Biathletes, comparison between physiological responses to roller skiing and in-line skating in, 31:595

Biodynamics

analysis of hip joint loading during walking, running, and skiing, 31:131

architectural characteristics of muscle in black and white college football players, 31:1448

asynchrony between subtalar and knee joint function during running, 31:1645

biomechanics of unstable ankle joint and clinical implications, 31:S459

comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190

comparison of methods for analyzing drop jump performance, 31:437

cross-validation of three jump power equations, 31:572

discus throwing performances and medical classification of wheelchair athletes, 31:1272

dynamics of force and muscle stimulation in human vertical jumping, 31:303

effect of incremental test protocol on lactate minimum speed, 31:837

electromyographic timing analysis of forward and backward cycling, 31:449

EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834

energy cost of horizontal walking and running in adolescents, 31:311

foot placement modifies kinematics and kinetics during drop jumping, 31:708

jumping for distance: control of external force in squat jumps, 31:1196

localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047

maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638

movement characteristics of tennis volley, 31:855

muscle activation during tennis volley, 31:846

muscle coordination and function during cutting movements, 31:294

neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124

plantar loading and cadence alterations with fatigue, 31:1828

prediction of speed and incline in outdoor running in humans using accelerometry, 31:1053

prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702

Q-angle influences on variability of lower extremity coordination during running, 31:1313

simplified deceleration method for assessment of resistive forces in cycling, 31:1441

stance width and bar load effects on leg muscle activity during parallel squat, 31:428

three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629

use of EMG analysis in challenging kinetic chain terminology, 31:443

Bioelectrical impedance

anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068

bioimpedance assessment of hypohydration, 31:1466

Biofeedback, and relaxation techniques improve running economy in sub-elite long distance runners, 31:717

Blood doping

effects of erythropoietin administration in training athletes and possible indirect detection in doping control, 31:639
ethics of blood testing as element of doping control in sport, 31:497
hematocrits of triathletes: is monitoring useful?, 31:372
induced hypervolemia, cardiac function, maximal oxygen uptake, and performance of elite cyclists, 31:800

Blood flow

adaptation during rest to work transition in humans, 31:1019
cardiovascular dynamics at onset of exercise, 31:1005
control of skeletal muscle perfusion at onset of dynamic exercise, 31:1011
effects of muscle contraction on skeletal muscle blood flow: when is there a muscle pump?, 31:1027
evidence for restricted muscle blood flow during speed skating, 31:1433
muscle blood flow during exercise: limits of reductionism, 31:1036

Blood pressure. See also Hypertension
blood pressure responses to acute static and dynamic exercise in three racial groups, 31:1793
inflight exercise affects stand test responses after space flight, 31:1755
influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456
reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623
validity of predicting mean arterial blood pressure during exercise, 31:1876

Body composition. See also Fat, body; Obesity and overweight
anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068
effect of physical training on total and visceral fat in obese children, 31:143
effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788

effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778
effects of exercise combined with diet therapy on protein utilization in obese children, 31:378
evaluation of BOD POD[®] for assessing body fat in collegiate football players, 31:1050

impact of bone mineral estimates on percent fat estimates from four-component model, 31:1861
is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:S568
lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558

physical activity and progressive change in body composition with aging, 31:S590
physical activity and weight gain and fat distribution changes with menopause, 31:S564

Body image, quest for ideal weight: costs and consequences, 31:1135

Bodybuilding, abscess related to anabolic-androgenic steroid injection, 31:207

Bone

changes in bone mineral content with decreased training in competitive young adult tennis players and controls: prospective 4-yr follow-up, 31:646
effects of progressive resistance training on bone density, 31:25
enlargement of remaining patella after partial patellectomy in rabbits, 31:502
ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088
running and ovulation positively change cancellous bone in premenopausal women, 31:780
stress fracture of proximal fibula in young soccer player, 31:925
ulnar variance and skeletal maturity of radius and ulna in female gymnasts, 31:653

Bone mineral density
available period and kind of exercise for increasing osteo sono assessment index in, 31:1709
comparison of calcaneal ultrasound and DXA in young women, 31:1484
eccentric muscle action increases site-specific osteogenic response, 31:1287
effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778
impact of bone mineral estimates on percent fat estimates from four-component model, 31:1861

lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558

Bracing
effect on patellar kinematics in patients with patellofemoral joint pain, 31:1714
prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702

Brain, magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969

Breast cancer
Physical Activity for Total Health (PATH) Study, 31:1307
physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Breastfeeding, does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

Bulimia nervosa, weight control in wrestling: eating disorders or disordered eating?, 31:1382

C

Calorimetry, comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

Cancer
comorbidities of overweight and obesity, 31:S602
effects of physical inactivity and obesity on morbidity and mortality, 31:S646
exercise and cellular innate immune function, 31:57
occupational physical activity and non-Hodgkin's lymphoma, 31:566

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Carbohydrates

carbohydrate-electrolyte ingestion during intermittent high-intensity running, 31:1280

does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583
influence of high and low glycemic index meals on endurance running capacity, 31:393

pre-exercise carbohydrate meals: application of glycemic index, 31:164
Carbon dioxide, ventilatory response to erect and supine exercise, 31:1429

Cardiac events
heart attacks and lower-limb function in master endurance athletes, 31:1041
recommendations for cardiovascular screening, staffing, and emergency policies at health/fitness facilities (letter), 31:353

risk of medical events in supervised health and fitness facility, 31:1233

Cardiac output
cardiopulmonary limitations to exercise in restrictive lung disease, 31:S28
cardiovascular dynamics at onset of exercise, 31:1005

evidence for restricted muscle blood flow during speed skating, 31:1433
muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90

Cardiac rehabilitation
cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721
effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094

effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery, 31:634
objective effects of 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102

quality of life and anxiety in phase II program, 31:216

Cardiorespiratory fitness
aerobic fitness in population of independently living men and women aged 55-86 years, 31:1813
apolipoprotein E polymorphism and relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692

cardiovascular responses to facial cooling are age and fitness dependent, 31:1163
classification without exercise testing, 31:486

effects of physical inactivity and obesity on morbidity and mortality, 31:S646
exercise performance in those having Parkinson's disease and healthy normals, 31:761

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

selected predictor variables and lipid-lipoprotein profile of prepubertal girls and boys, 31:1550

Catalase, exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987

Catecholamines

- effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560
- effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400
- neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Cell adhesion, regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362

Cell death, antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594

Cerebral palsy, role of mechanical power estimates in O_2 cost of walking in children with, 31:1703

Chemoreceptors, ventilatory responses to dynamic exercise elicited by intramuscular sensors, 31:277

Children. *See also* Adolescents

- childhood and adolescent physical activity patterns and adult physical activity, 31:118
- comparison of four habitual physical activity questionnaires in girls aged 7–15 yr, 31:421
- daily primary school physical education: effects on physical activity during adult life, 31:111
- effect of physical training on total and visceral fat in obese children, 31:143
- effects of exercise combined with diet therapy on protein utilization in obese children, 31:378
- energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242
- foot and ankle problems in young athlete, 31:S470
- levels of physical activity and inactivity in children and adults in United States: current evidence and research issues, 31:S526
- obesity epidemic in children and adults: current evidence and research issues, 31:S509
- physical activity in treatment of overweight and obesity in, 31:S553
- preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774
- role of mechanical power estimates in O_2 cost of walking in children with cerebral palsy, 31:1703
- selected predictor variables and lipid-lipoprotein profile of prepubertal girls and boys, 31:1550
- single-leg Wingate test in children: reliability and optimal braking force, 31:1218
- youth ice hockey tournament injuries, 31:46

Cold effects

preliminary examination of cryotherapy and secondary injury in skeletal muscle, 31:1516

recognizing and treating common cold-induced injury in outdoor sports, 31:1367

Colon cancer, physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Communication, obesity, fitness, and willingness to communicate and health care costs, 31:1535

Competitive environment of journal publication (editorial), 31:1

Computers, comprehensive and cost-effective preparticipation exam implemented on World Wide Web, 31:1727

Conconi test, heart rate turn point reliability and methodological aspects, 31:903

Concussion, youth ice hockey tournament injuries, 31:46

Coronary heart disease

- acute responses to resistance training and safety, 31:31
- comorbidities of overweight and obesity, 31:S602
- effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094
- effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery, 31:634
- effects of physical inactivity and obesity on morbidity and mortality, 31:S646
- heart attacks and lower-limb function in master endurance athletes, 31:1041
- quality of life and anxiety in phase II cardiac rehabilitation program, 31:216
- ventilatory responses to exercise in patients with asymptomatic left ventricular dysfunction, 31:942

Coronary risk factors

- effects of physical inactivity and obesity on morbidity and mortality, 31:S646
- physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287
- selected predictor variables and lipid-lipoprotein profile of prepubertal girls and boys, 31:1550

Cortisol

- acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748
- hormonal response to *d*-fenfluramine challenge in trained and sedentary men, 31:547
- neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536
- plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

Costs

- comprehensive and cost-effective preparticipation exam implemented on World Wide Web, 31:1727
- economic costs of obesity and inactivity, 31:S663
- obesity, fitness, and willingness to communicate and health care costs, 31:1535

Creatine

creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

creatine supplementation-part II: in vivo magnetic resonance spectroscopy, 31:1770

long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108

performance and muscle fiber adaptations to creatine supplementation and heavy resistance training, 31:1147

phosphocreatine resynthesis is not affected by creatine loading, 31:236

Creatine kinase

- adverse events associated with eccentric exercise protocols, 31:1697
- effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414
- linkage between muscle-specific CK gene marker and maximal oxygen uptake in HERITAGE Family Study, 31:698
- muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587
- naproxen does not alter indices of muscle damage in resistance-exercise trained men, 31:4

Cross-country skiing

- development of maximal testing protocol for NordicTrack cross-country ski simulator, 31:619
- maximal strength training improves work economy in trained female cross-country skiers, 31:870
- responses to training in cross-country skiers, 31:1211

Cryotherapy

- preliminary examination of cryotherapy and secondary injury in skeletal muscle, 31:1516
- recognizing and treating common cold-induced injury in outdoor sports, 31:1367

Cycling

- comparing cycling world hour records, 1967–1996: modeling with empirical data, 31:1665
- effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464
- effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599
- effects of different interval-training programs on cycling time-trial performance, 31:736
- effects of strength training on endurance performance and muscle characteristics, 31:886
- EMG timing analysis of forward and backward cycling, 31:449
- induced hypervolemia, cardiac function, maximal oxygen uptake, and performance of elite cyclists, 31:800
- level ground and uphill cycling ability in professional road cycling, 31:878
- noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742
- physiological effects of constant versus variable power during endurance cycling, 31:1472

power output/heart rate relationship in cycling: test standardization and repeatability, 31:1478
 racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677
 reliability of power output during intermittent high-intensity cycling, 31:913
 simplified deceleration method for assessment of resistive forces in, 31:1441
 ventilatory responses during experimental cycle-run transition in triathletes, 31:1422

Cystic fibrosis
 energy metabolism during anaerobic exercise in children with asthma and, 31:1242
 preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774

D

Deconditioning, changes in bone mineral content with decreased training in competitive young adult tennis players and controls: prospective 4-yr follow-up, 31:646

Dehydration

bioimpedance assessment of hypohydration, 31:1466
 fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386
 intermittent running: muscle metabolism in heat and effect of hypohydration, 31:675
 preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774

Dexamethasone, expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799

Diabetes mellitus

comorbidities of overweight and obesity, 31:S602
 effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619
 effects of physical inactivity and obesity on morbidity and mortality, 31:S646
 substrate utilization and glucose turnover during exercise of varying intensities in individuals with NIDDM, 31:82

Diagnosis

exercise-induced asthma: diagnosis and treatment for recreational or elite athlete, 31:S33

lateral ankle sprains. part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

Diaphragm, endurance training reduces rate of diaphragm fatigue *in vitro*, 31:1605

Diet and nutrition

abnormal eating behaviors in military women, 31:1265
 carbohydrate-electrolyte ingestion during intermittent high-intensity running, 31:1280
 creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

creatine supplementation-part II: *in vivo* magnetic resonance spectroscopy, 31:1770

does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464

effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400

effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778

effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414

effects of exercise combined with diet therapy on protein utilization in obese children, 31:378

how effective are traditional dietary and exercise interventions for weight loss?, 31:1129

increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570

influence of exercise training on physiological and performance changes with weight loss in men, 31:1320
 influence of high and low glycemic index meals on endurance running capacity, 31:393

influence of low and high dietary fat on physical performance in untrained males, 31:149

long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

phosphocreatine resynthesis is not affected by creatine loading, 31:236
 physical activity and preference for selected macronutrients, 31:S584

physical activity and regulation of food intake, 31:S573

pre-exercise carbohydrate meals: application of glycemic index, 31:164
 weight and diet concerns in Finnish female and male athletes, 31:229

Disability

discus throwing performances and medical classification of wheelchair athletes, 31:1272

physical activity patterns of African-American women with severe physical disabilities, 31:613

physical performance during rehabilitation in persons with spinal cord injuries, 31:1330

physical performance in persons with spinal cord injuries after discharge from rehabilitation, 31:1111

stroking parameters in top level swimmers with a disability, 31:1839

validation of PASE in older adults with knee pain and physical disability, 31:627
 validity of modified aerobic fitness test for adults with mental retardation, 31:1849

Discus throwing, performances and medical classification of wheelchair athletes, 31:1272

Drafting, effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

Drop landings

foot placement modifies kinematics and kinetics during drop jumping, 31:708
 prophylactic ankle stabilizers affect ankle joint kinematics during, 31:702

Dyslipidemia. See also Lipoproteins
 comorbidities of overweight and obesity, 31:S602

physical activity for preventing and treatment obesity-related dyslipoproteinemias, 31:S609

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

Dyspnea, simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52

Dystonia, bilateral segmental, in professional tennis player, 31:1085

E

Eating behavior

abnormal eating behaviors in military women, 31:1265

physical activity and regulation of food intake, 31:S573

quest for ideal weight: costs and consequences, 31:1135

weight and diet concerns in Finnish female and male athletes, 31:229

weight control in wrestling: eating disorders or disordered eating?, 31:1382

Echocardiography, short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414

Elderly persons. See Aging; Older adults

Electrocardiogram

exercise training and heart rate variability in older people, 31:816

lack of correlation between ventricular late potentials and left ventricular mass in top-level male athletes, 31:359

Electrolytes

bioimpedance assessment of hypohydration, 31:1466

carbohydrate-electrolyte ingestion during intermittent high-intensity running, 31:1280

hyponatremia in ultradistance triathletes, 31:809

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

Electromyography (EMG)

comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

dynamics of force and muscle stimulation in human vertical jumping, 31:303

eccentric muscle action increases site-specific osteogenic response, 31:1287

EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834

EMG timing analysis of forward and backward cycling, 31:449

muscle activation during tennis volley, 31:846

muscle control in elite alpine skiing, 31:1065

muscle coordination and function during cutting movements, 31:294
shoulder proprioception: latent muscle reaction times, 31:1394
stance width and bar load effects on leg muscle activity during parallel squat, 31:428

use of EMG analysis in challenging kinetic chain terminology, 31:443

Emergencies

recommendations for cardiovascular screening, staffing, and emergency policies at health/fitness facilities (letter), 31:353

risk of medical events in supervised health and fitness facility, 31:1233

Endometrial cancer, physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Endurance exercise

basophil releasability in young highly trained and older athletes, 31:507
biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717

effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583

effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

effects of different interval-training programs on cycling time-trial performance, 31:736

effects of strength training on endurance performance and muscle characteristics, 31:836

endurance training reduces rate of diaphragm fatigue *in vitro*, 31:1605
exercise cardiac function in young through elderly endurance trained women, 31:684

gastrointestinal symptoms during long-distance walking, 31:767

heart attacks and lower-limb function in master endurance athletes, 31:1041
hyponatremia in ultradistance triathletes, 31:809

increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570

influence of high and low glycemic index meals on endurance running capacity, 31:393

influence of low and high dietary fat on physical performance in untrained males, 31:149

intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264

maximal strength training improves work economy in trained female cross-country skiers, 31:870

neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124

objective effects of 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102

one-day maximal lactate steady-state assessment protocol for trained runners, 31:1336

physiological effects of constant versus variable power during endurance cycling, 31:1472

plasma lactate decline during passive recovery from high-intensity exercise, 31:670

regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362

short-term strenuous, effects on corpus luteum function, 31:949

Energy expenditure

accuracy of prediction equations to estimate submaximal oxygen uptake during cycle ergometry: HERITAGE Family Study, 31:183

accuracy of TriTrac-R3D accelerometer to estimate, 31:747

circuit weight training and its effects on excess postexercise oxygen consumption, 31:1613

comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

energy cost of horizontal walking and running in adolescents, 31:311

energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242

overview of determinants of obesity and overweight: current evidence and research issues, 31:S515

physical activity and regulation of food intake, 31:S573

simplified deceleration method for assessment of resistive forces in cycling, 31:1441

validity, reliability, and calibration of TriTrac accelerometer as measure of physical activity, 31:908

Environmental effects

brain magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969

exertional heat stroke: case series, 31:224

fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386

marathons in altitude, 31:723

recognizing and treating common cold-induced injury in outdoor sports, 31:1367

Epidemiology

aerobic fitness in population of independently living men and women aged 55-86 years, 31:1813

apolipoprotein E polymorphism and relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692

childhood and adolescent physical activity patterns and adult physical activity, 31:118

classification of cardiorespiratory fitness without exercise testing, 31:486

comparison of four habitual physical activity questionnaires in girls aged 7-15 yr, 31:421

daily primary school physical education: effects on physical activity during adult life, 31:111

effects of physical inactivity and obesity on morbidity and mortality, 31:S646

epidemiological patterns of musculoskeletal injuries and physical training, 31:1176

gender differences in musculoskeletal injury rates: function of symptom reporting?, 31:1807

heart attacks and lower-limb function in master endurance athletes, 31:1041

intraindividual variability and reliability in 7-day exercise record, 31:1619

linkage between muscle-specific CK gene marker and maximal oxygen uptake in HERITAGE Family Study, 31:698

North Carolina High School Athletic Injury Study, 31:176

obesity epidemic in children and adults: current evidence and research issues, 31:S509

occupational physical activity and non-Hodgkin's lymphoma, 31:566

Physical Activity for Total Health (PATH) Study, 31:1307

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821

relationship of physical activity and fitness to lipid and lipoprotein (a) in elderly subjects, 31:1183

reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623

utility of pwc75% as estimate of aerobic power in epidemiological and population-based studies, 31:348

Epinephrine, effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560

Ergogenic aids

creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788

long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108

performance and muscle fiber adaptations to creatine supplementation and heavy resistance training, 31:1147

phosphocreatine resynthesis is not affected by creatine loading, 31:236

polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293

Erythropoietin

effects of acute exercise on plasma levels of, in trained runners, 31:543

effects of administration in training athletes and possible indirect detection in doping control, 31:639

hematocrits of triathletes: is monitoring useful?, 31:372

Estrogen

effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

Physical Activity for Total Health (PATH) Study, 31:1307

running and ovulation positively change cancellous bone in premenopausal women, 31:780

Ethics, of blood testing as element of doping control in sport, 31:497

Exercise. See also Physical activity
 adaptation of blood flow during rest to work transition in humans, 31:1019
 available period and kind of exercise for increasing osteo sono assessment index in, 31:1709
 cardiovascular dynamics at onset of, 31:1005
 cellular innate immune function and, 31:57
 comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656
 control of airway function during and after exercise in asthmatics, 31:54
 control of skeletal muscle perfusion at onset of dynamic exercise, 31:1011
 design and analysis of research on sport performance enhancement, 31:472
 differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829
 disproportionate increase in oxygen uptake coincident with lactate threshold during treadmill exercise, 31:1299
 effective health promotion and clinical care for large people, 31:1141
 effects of exercise and insulin on insulin signaling proteins in human skeletal muscle, 31:998
 effects of exercise combined with diet therapy on protein utilization in obese children, 31:378
 effects of posture on left ventricular diastolic filling during, 31:1564
 exercise performance in those having Parkinson's disease and healthy normals, 31:761
 gas exchange responses in differentiation of pathologic and physiologic left ventricular hypertrophy, 31:1237
 how effective are traditional dietary and exercise interventions for weight loss?, 31:1129
 inflight exercise affects stand test responses after space flight, 31:1755
 intraindividual variability and reliability in 7-day exercise record, 31:1619
 is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:5568
 left ventricular function during interval and steady state exercise, 31:1157
 muscle blood flow during exercise: limits of reductionism, 31:1036
 myocardial diastolic function and exercise, 31:1741
 physical and psychological predictors of exercise dosage in healthy adults, 31:1060
 quantity and quality of exercise for healthy adults (letter), 31:916
 short-term effects on plasma very low density lipoproteins and fatty acids, 31:522
 sport performance enhancement: design and analysis of research (letter), 31:755
 ventilatory response to erect and supine exercise, 31:1429
 ventilatory responses to exercise in patients with asymptomatic left ventricular dysfunction, 31:942

Exercise intensity
 aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855
 does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105
 effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560
 effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892
 influence of high-intensity exercise training on ventilatory response to exercise in patients with reduced ventricular function, 31:929
 is determination of exercise intensities as percentages of maximal oxygen uptake or maximal heart rate adequate?, 31:1342
 plasma lactate decline during passive recovery from high-intensity exercise, 31:670
 quantity and quality of exercise for healthy adults (letter), 31:916
 reliability of power output during intermittent high-intensity cycling, 31:913
 substrate utilization and glucose turnover during exercise of varying intensities in individuals with NIDDM, 31:82

Exercise prescription
 exercise training guidelines for the elderly, 31:12
 prescription of resistance training for health and disease, 31:38

Exercise tolerance
 cardiopulmonary limitations to exercise in restrictive lung disease, 31:528
 mechanical ventilatory constraints in aging, lung disease, and obesity, 31:512
 physical performance in persons with spinal cord injuries after discharge from rehabilitation, 31:1111
 simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52

F

Facial cooling, cardiovascular responses to, age and fitness dependent, 31:1163

Facial injuries, in scholastic women's lacrosse with and without eyewear, 31:938

Fat, body. See also Body composition; Obesity and overweight
 anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068
 effect of physical training on total and visceral fat in obese children, 31:143
 effective health promotion and clinical care for large people, 31:1141
 effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778
 evaluation of BOD POD[®] for assessing body fat in collegiate football players, 31:1050
 impact of bone mineral estimates on percent fat estimates from four-component model, 31:1861
 is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:5568
 physical activity and progressive change in body composition with aging, 31:5590

physical activity and weight gain and fat distribution changes with, 31:5564
 selected predictor variables and lipid-lipoprotein profile of prepubertal girls and boys, 31:1550
 thinness and weight loss: beneficial or detrimental to longevity?, 31:1118

Fat, dietary
 increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570
 influence of low and high dietary fat on physical performance in untrained males, 31:149
 overview of determinants of obesity and overweight: current evidence and research issues, 31:5515
 physical activity and preference for selected macronutrients, 31:5584

Fatigue
 effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583
 effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464
 EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834
 endurance training reduces rate of diaphragm fatigue *in vitro*, 31:1605
 localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047
 muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ¹³C-MRS, 31:1587
 plantar loading and cadence alterations with fatigue, 31:1828
 polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293

Fatty acids, short-term effects of exercise on plasma very low density lipoproteins and, 31:522

d-Fenfluramine challenge, hormonal response to, in trained and sedentary men, 31:547

Fetal heart rate, physical conditioning effects on fetal heart rate responses to graded maternal exercise, 31:792

Fibrinogen, physical activity in prevention and treatment of thrombotic profile in the obese, 31:5631

Fibroblasts, responses to variation in soft tissue mobilization pressure, 31:531

Fluids. See also Dehydration
 bioimpedance assessment of hypohydration, 31:1466
 fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386
 investigation of side pain "stitch" induced by running after fluid ingestion, 31:1169

Follicle-stimulating hormone, acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

Fontan operation, role of right ventricle during hypobaric hypoxic exercise: insights from patients after Fontan operation, 31:269

Foot
 comparison of calcaneal ultrasound and DXA in young women, 31:1484

foot and ankle problems in young athlete, 31:S470
 foot placement modifies kinematics and kinetics during drop jumping, 31:708
 forefoot problems in athletes, 31:S448
 imaging of foot and ankle in injured athlete, 31:S412
 plantar loading and cadence alterations with fatigue, 31:1828
 shoe inserts and orthotics for sport and physical activities, 31:S421
 three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629
Football
 architectural characteristics of muscle in black and white college football players, 31:1448
 evaluation of BOD POD[®] for assessing body fat in collegiate football players, 31:1050
 os trigonum syndrome with flexor hallucis longus tenosynovitis in professional football referee, 31:S493
Fractures
 effects of progressive resistance training on bone density, 31:25
 forefoot problems in athletes, 31:S448
 ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088
 imaging of foot and ankle in injured athlete, 31:S412
 stress fracture of proximal fibula in young soccer player, 31:925
Frostbite, recognizing and treating common cold-induced injury in outdoor sports, 31:1367

G

Gallbladder disease
 comorbidities of overweight and obesity, 31:S602
 physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635
Gas exchange. See also Ventilation
 cardiopulmonary limitations to exercise in restrictive lung disease, 31:S28
 exercise gas exchange responses in differentiation of pathologic and physiologic left ventricular hypertrophy, 31:1237
 heart rate turn point reliability and methodological aspects, 31:903
 ventilatory responses during experimental cycle-run transition in triathletes, 31:1422
Gastrointestinal symptoms, during long-distance walking, 31:767
Gender differences. See also Women
 apolipoprotein E polymorphism and relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692
 knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959
 muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90
 in musculoskeletal injury rates: function of symptom reporting?, 31:1807
 selected predictor variables and lipid-lipoprotein profile of prepubertal girls and

boys, 31:1550
 weight and diet concerns in Finnish female and male athletes, 31:229
Genetics
 apolipoprotein E polymorphism and relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692
 linkage between muscle-specific CK gene marker and maximal oxygen uptake in HERITAGE Family Study, 31:698
Glucose
 effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583
 effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400
 effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619
 influence of high and low glycemic index meals on endurance running capacity, 31:393
 neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536
 pre-exercise carbohydrate meals: application of glycemic index, 31:164
 substrate utilization and glucose turnover during exercise of varying intensities in individuals with NIDDM, 31:82
Glucose-6-phosphate dehydrogenase, effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414
Glutathione
 antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594
 effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409
Glutathione peroxidase, exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987
Glycogen
 muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ¹³C-MRS, 31:1587
 noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ³¹P- and ¹³C-MRS, 31:1580
Granulocytes, regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362
Ground reaction force
 dynamics of force and muscle stimulation in human vertical jumping, 31:303
 ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088
 movement characteristics of tennis volley, 31:855
Growth hormone
 acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748
 neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406
Gymnasts
 comparison of calcaneal ultrasound and DXA in young women, 31:1484
 low back pain in elite rhythmic gymnasts, 31:1686
 ulnar variance and skeletal maturity of radius and ulna in female gymnasts, 31:653

H

Head injuries
 in scholastic women's lacrosse with and without eyewear, 31:938
 youth ice hockey tournament injuries, 31:46
Health and fitness facilities, recommendations for cardiovascular screening, staffing, and emergency policies at (letter), 31:353
Health care costs
 economic costs of obesity and inactivity, 31:S663
 obesity, fitness, and willingness to communicate and, 31:1535
Health promotion
 and clinical care for large people, 31:1141
 cluster-analytical approach toward physical activity and other health related behaviors, 31:605
 quantity and quality of exercise for healthy adults (letter), 31:916
Heart
 acute responses to resistance training and safety, 31:31
 cardiopulmonary and CD4 cell changes in response to exercise training in early symptomatic HIV infection, 31:973
 cardiorespiratory responses to arm cranking and electrical stimulation leg cycling in people with paraplegia, 31:822
 effects of anabolic-androgenic steroids on weight-lifters' myocardium: ultrasonic videodensitometric study, 31:514
 effects of posture on left ventricular diastolic filling during exercise, 31:1564
 exercise cardiac function in young through elderly endurance trained women, 31:684
 exercise gas exchange responses in differentiation of pathologic and physiologic left ventricular hypertrophy, 31:1237
 induced hypervolemia, cardiac function, maximal oxygen uptake, and performance of elite cyclists, 31:800
 lack of correlation between ventricular late potentials and left ventricular mass in top-level male athletes, 31:359
 left ventricular function during interval and steady state exercise, 31:1157
 myocardial diastolic function and exercise, 31:1741
 role of right ventricle during hypobaric hypoxic exercise: insights from patients after Fontan operation, 31:269
 short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414
 systolic and diastolic cardiac function time intervals and exercise capacity in, 31:258

Heart disease

acute responses to resistance training and safety, 31:31
cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721
heart attacks and lower-limb function in master endurance athletes, 31:1041
influence of high-intensity exercise training on ventilatory response to exercise in patients with reduced ventricular function, 31:929

objective effects of 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102

prescription of resistance training for health and disease, 31:38
quality of life and anxiety in phase II cardiac rehabilitation program, 31:216
simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52

ventilatory responses to exercise in patients with asymptomatic left ventricular dysfunction, 31:942

Heart rate

assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

effects of proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460

exercise training and heart rate variability in older people, 31:816

fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386

heart rate turn point reliability and methodological aspects, 31:903

increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570

inflight exercise affects stand test responses after space flight, 31:1755

influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456

is determination of exercise intensities as percentages of maximal oxygen uptake or maximal heart rate adequate?, 31:1342

measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226

metabolic responses associated with deer hunting, 31:1844

noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742

oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

physical conditioning effects on fetal heart rate responses to graded maternal exercise, 31:792

physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

power output/heart rate relationship in cycling: test standardization and repeatability, 31:1478

reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623
stability of blood lactate-heart rate relationship in competitive athletes, 31:578

Heat effects

effects of precooling on thermoregulation during subsequent exercise, 31:251

exertional heat stroke: case series, 31:224

intermittent running: muscle metabolism in heat and effect of hypohydration, 31:675

preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774

Hematology

cardiovascular dynamics at onset of exercise, 31:1005

effects of acute exercise on plasma erythropoietin levels in trained runners, 31:543

hematocrits of triathletes: is monitoring useful?, 31:372

intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264

polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293

Hemodynamics

acute responses to resistance training and safety, 31:31

high altitude pulmonary edema, 31:S23

Hepatitis B, abscess related to anabolic-androgenic steroid injection, 31:207

HERITAGE Family Study

accuracy of prediction equations to estimate submaximal oxygen uptake during cycle ergometry, 31:183

linkage between muscle-specific CK gene marker and maximal oxygen uptake in, 31:698

reproducibility of maximal exercise test data in, 31:1623

Hip, analysis of hip joint loading during walking, running, and skiing, 31:131

Histamine release, basophil releasability in young highly trained and older athletes, 31:507

Histology, enlargement of remaining patella after partial patellectomy in rabbits, 31:502

Hockey, youth ice hockey tournament injuries, 31:46

Hormones

acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788

exercise and recovery responses of adrenal medullary neurohormones to heavy resistance exercise, 31:554

hormonal response to *d*-fenfluramine challenge in trained and sedentary men, 31:547

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Physical Activity for Total Health (PATH) Study, 31:1307

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

temporal effects of testosterone propionate injections on serum lipoprotein concentrations in rats, 31:664

Human immunodeficiency virus (HIV) infection

abscess related to anabolic-androgenic steroid injection, 31:207

cardiopulmonary and CD4 cell changes in response to exercise training in early symptomatic HIV infection, 31:973

Hunting, metabolic responses associated with deer hunting, 31:1844

Hypertension

blood pressure responses to acute static and dynamic exercise in three racial groups, 31:1793

comorbidities of overweight and obesity, 31:S602

effects of physical inactivity and obesity on morbidity and mortality, 31:S646

physical activity in prevention and treatment of hypertension in the obese, 31:S624

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

Hyperthermia. See Heat effects

Hypertrophic cardiomyopathy, exercise gas exchange responses in differentiation of pathologic and physiologic left ventricular hypertrophy, 31:1237

Hypobaric hypoxia

intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264

role of right ventricle during hypobaric hypoxic exercise: insights from patients after Fontan operation, 31:269

Hypohydration. See Dehydration

Hyponatremia

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

in ultradistance triathletes, 31:809

Hypothalamic-pituitary-adrenal axis

acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799

Hypothermia. See Cold effects

Hypoxemia

effect of repeat exercise on pulmonary diffusing capacity and exercise-induced arterial hypoxemia in trained athletes, 31:99

ventilatory responses during experimental cycle-run transition in triathletes, 31:1422

Hypoxia

comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665

degree of arterial desaturation in normoxia influences maximal oxygen uptake decline in mild hypoxia, 31:658

high altitude pulmonary edema, 31:S23

intermittent hypobaric hypoxia stimulates erythropoiesis and improves aerobic capacity, 31:264

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

role of right ventricle during hypobaric hypoxic exercise: insights from patients after Fontan operation, 31:269

I

Imaging

brain magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969
comparison of calcaneal ultrasound and DXA in young women, 31:1484
of foot and ankle in injured athlete, 31:S412

magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361

muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587

noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

Immune system

cardiopulmonary and CD4 cell changes in response to exercise training in early symptomatic HIV infection, 31:973

differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829
exercise and cellular innate immune function, 31:57

expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799

lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise, 31:74

regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362

salivary IgA levels and infection risk in elite swimmers, 31:67

Inactivity

contribution of sedentary lifestyle and inactivity to etiology of overweight and obesity, 31:S534

economic costs of obesity and, 31:S663
effects of physical inactivity and obesity on morbidity and mortality, 31:S646

hormonal response to *d*-fenfluramine challenge in trained and sedentary men, 31:547

levels of physical activity and inactivity in children and adults in United States: current evidence and research issues, 31:S526

prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821

Infection

abscess related to anabolic-androgenic steroid injection, 31:207

exercise and cellular innate immune function, 31:57

salivary IgA levels and infection risk in elite swimmers, 31:67

Injuries

ankle injuries: same joint, different sports, 31:S409

asynchrony between subtalar and knee joint function during running, 31:1645

benefits of wearing compression sleeve after anterior cruciate ligament reconstruction, 31:368

clinical nomenclature for tendon injuries (letter), 31:352

effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414

epidemiological patterns of musculoskeletal injuries and physical training, 31:1176

foot and ankle problems in young athlete, 31:S470

forefoot problems in athletes, 31:S448

gender differences in musculoskeletal injury rates: function of symptom reporting?, 31:1807

head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

imaging of foot and ankle in injured athlete, 31:S412

knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959

lateral ankle sprains. part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429

lateral ankle sprains. part 2: treatment and rehabilitation with emphasis on athlete, 31:S438

laxity, instability, and functional outcome after anterior cruciate ligament injury: copers versus noncopers, 31:210

low back pain in elite rhythmic gymnasts, 31:1686

low back strengthening for prevention and treatment of low back pain, 31:18

North Carolina High School Athletic Injury Study, 31:176

os trigonum syndrome with flexor hallucis longus tenosynovitis in professional football referee, 31:S493

peroneal tendon subluxation in athletes, 31:S487

preliminary examination of cryotherapy and secondary injury in skeletal muscle, 31:1516

recognizing and treating common cold-induced injury in outdoor sports, 31:1367

risk of medical events in supervised health and fitness facility, 31:1233

stress fracture of proximal fibula in young soccer player, 31:925

talocrural and subtalar joint instability after lateral ankle sprain, 31:1501

youth ice hockey tournament injuries, 31:46

Insomnia, is sleep disturbed by vigorous late-night exercise?, 31:864

Insulin

effects of exercise and insulin on insulin signaling proteins in human skeletal muscle, 31:998

effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619

influence of high and low glycemic index meals on endurance running capacity, 31:393

pre-exercise carbohydrate meals:

application of glycemic index, 31:164

Insulin resistance

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

Interleukin 6

expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Intermittent claudication, smoking history related to free-living daily physical activity in claudicants, 31:980

Intermittent exercise

carbohydrate-electrolyte ingestion during intermittent high-intensity running, 31:1280

intermittent running: muscle metabolism in heat and effect of hypohydration, 31:675

phosphocreatine resynthesis is not affected by creatine loading, 31:236

reliability of power output during intermittent high-intensity cycling, 31:913

International abstracts, 31:189

International System of Units (SI), 31:198

Internet, comprehensive and cost-effective preparticipation exam implemented on World Wide Web, 31:1727

Interval training

effects of different interval-training programs on cycling time-trial performance, 31:736

left ventricular function during interval and steady state exercise, 31:1157

at maximal oxygen uptake: effects on aerobic performance and overtraining markers, 31:156

Isokinetics

comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190

early phase adaptations of muscle use and strength to isokinetic training, 31:588

J

Jumping

comparison of methods for analyzing drop jump performance, 31:437

cross-validation of three jump power equations, 31:572

dynamics of force and muscle stimulation in human vertical jumping, 31:303

jumping for distance: control of external force in squat jumps, 31:1196

K

Karate, oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

Kinematics

development and clinical application of kinematic MRI of patellofemoral joint using an extremity MR system, 31:788

discus throwing performances and medical classification of wheelchair athletes, 31:1272

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

foot placement modifies kinematics and kinetics during drop jumping, 31:708
knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959

prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702

Q-angle influences on variability of lower extremity coordination during running, 31:1313

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

Kinetics

comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190

early phase adaptations of muscle use and strength to isokinetic training, 31:588
foot placement modifies kinematics and kinetics during drop jumping, 31:708

three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629

use of EMG analysis in challenging kinetic chain terminology, 31:443

Knee

asynchrony between subtalar and knee joint function during running, 31:1645

benefits of wearing compression sleeve after anterior cruciate ligament reconstruction, 31:368

comparison of isokinetic peak force and work parameters in youth with and without mental retardation, 31:1190

development and clinical application of kinematic MRI of patellofemoral joint using an extremity MR system, 31:788

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

enlargement of remaining patella after partial patellectomy in rabbits, 31:502

knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959

laxity, instability, and functional outcome after anterior cruciate ligament injury: copers versus noncopers, 31:210

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629

ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

validation of PASE in older adults with knee pain and physical disability, 31:627

L

Lacrosse, head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

Lactate

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

disproportionate increase in oxygen uptake coincident with lactate threshold during treadmill exercise, 31:1299

does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

effect of incremental test protocol on lactate minimum speed, 31:837

effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560

effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400

effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

effects of strength training on endurance performance and muscle characteristics, 31:886

level ground and uphill cycling ability in professional road cycling, 31:878

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742

one-day maximal lactate steady-state assessment protocol for trained runners, 31:1336

oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

physiological effects of constant versus variable power during endurance cycling, 31:1472

plasma lactate decline during passive recovery from high-intensity exercise, 31:670

responses to training in cross-country skiers, 31:1211

stability of blood lactate-heart rate relationship in competitive athletes, 31:578

Lactation, does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

Left ventricular function

effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094

effects of posture on left ventricular diastolic filling during exercise, 31:1564

during interval and steady state

exercise, 31:1157

myocardial diastolic function and

exercise, 31:1741

ventilatory responses to exercise in patients with asymptomatic left ventricular dysfunction, 31:942

Left ventricular mass

exercise gas exchange responses in differentiation of pathologic and physiologic left ventricular hypertrophy, 31:1237

lack of correlation between ventricular late potentials and left ventricular mass in top-level male athletes, 31:359

Leukocytes, differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829

Life span, thinness and weight loss: beneficial or detrimental to longevity?, 31:1118

Lifestyle factors

cluster-analytical approach toward physical activity and other health related behaviors, 31:605

smoking history related to free-living daily physical activity in claudicants, 31:980

Ligaments

benefits of wearing compression sleeve after anterior cruciate ligament reconstruction, 31:368

bilateral deficit of voluntary quadriceps muscle activation after unilateral ACL tear, 31:1691

biomechanics of unstable ankle joint and clinical implications, 31:S459

laxity, instability, and functional outcome after anterior cruciate ligament injury: copers versus noncopers, 31:210

Lipoproteins. See also Dyslipidemia
apolipoprotein E polymorphism and relationships of physical fitness to plasma lipoprotein-lipid levels in men and women, 31:692

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

physical activity for preventing and treatment obesity-related dyslipoproteinemias, 31:S609

relationship of physical activity and fitness to lipid and lipoprotein (a) in elderly subjects, 31:1183

selected predictor variables and lipid-lipoprotein profile of prepubertal girls and boys, 31:1550

short-term effects of exercise on plasma very low density lipoproteins and fatty acids, 31:522

temporal effects of testosterone propionate injections on serum lipoprotein concentrations in rats, 31:664

Liver disorders

abscess related to anabolic-androgenic steroid injection, 31:207

rat liver lysosomal and mitochondrial activities modified by anabolic-androgenic steroids, 31:243

Low back pain

comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656

in elite rhythmic gymnasts, 31:1686

low back strengthening for prevention and treatment of, 31:18

physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Lower extremity

analysis of hip joint loading during walking, running, and skiing, 31:131

ankle injuries: same joint, different sports, 31:S409

biomechanics of unstable ankle joint and clinical implications, 31:S459

development and clinical application of kinematic MRI of patellofemoral joint using an extremity MR system, 31:788

dynamics of force and muscle stimulation in human vertical jumping, 31:303

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

etiologic factors associated with Achilles tendinitis in runners, 31:1374

foot and ankle problems in young athlete, 31:S470

foot placement modifies kinematics and kinetics during drop jumping, 31:708

forefoot problems in athletes, 31:S448

gender differences in musculoskeletal injury rates: function of symptom reporting?, 31:1807

ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088

heart attacks and lower-limb function in master endurance athletes, 31:1041

imaging of foot and ankle in injured athlete, 31:S412

knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959

lateral ankle sprains. part 1: etiology, pathoanatomy, histopathogenesis, and diagnosis, 31:S429

lateral ankle sprains. part 2: treatment and rehabilitation with emphasis on athlete, 31:S438

laxity, instability, and functional outcome after anterior cruciate ligament injury: copers versus noncopers, 31:210

muscle coordination and function during cutting movements, 31:294

peroneal tendon subluxation in athletes, 31:S487

prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702

Q-angle influences on variability of lower extremity coordination during running, 31:1313

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

shoe inserts and orthotics for sport and physical activities, 31:S421

single-leg Wingate test in children: reliability and optimal braking force, 31:1218

stance width and bar load effects on leg muscle activity during parallel squat, 31:428

stress fracture of proximal fibula in young soccer player, 31:925

talocrural and subtalar joint instability after lateral ankle sprain, 31:1501

three-dimensional kinetic analysis of running: significance of secondary planes of motion, 31:1629

ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

Lung disease

comorbidities of overweight and obesity, 31:S602

control of airway function during and after exercise in asthmatics, 31:S4

energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242

exercise-induced asthma: diagnosis and treatment for recreational or elite athlete, 31:S33

high altitude pulmonary edema, 31:S23

mechanical ventilatory constraints in aging, lung disease, and obesity, 31:S12

preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774

reliability of submaximal exercise tests in patients with COPD, 31:1257

restrictive, cardiopulmonary limitations to exercise in, 31:S28

Luteinizing hormone, acute amino acids supplementation enhances pituitary responsiveness in athletes, 31:1748

Lymphocytes

differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829

expression of lymphocyte subsets after exercise and dexamethasone in high and low stress responders, 31:1799

lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise, 31:74

Lymphoma, non-Hodgkin's, occupational physical activity and, 31:566

M

MAC 1 (CD11b/CD18), regulation of expression on circulating granulocytes in endurance runners, 31:362

Magnetic resonance imaging (MRI)

creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

development and clinical application of kinematic MRI of patellofemoral joint using an extremity MR system, 31:788

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

Magnetic resonance spectroscopy (MRS)

creatine supplementation-part II: in vivo magnetic resonance spectroscopy, 31:1770

muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587

noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

Malondialdehyde, effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409

Managed care, obesity, fitness, and willingness to communicate and health care costs, 31:1535

Marathons

in altitude, 31:723

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414

Massage, fibroblast responses to variation in soft tissue mobilization pressure, 31:531

Master-Borg test, simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52

Mechanoreceptors, ventilatory responses to dynamic exercise elicited by intramuscular sensors, 31:277

Menopause, physical activity and weight gain and fat distribution changes with, 31:S564

Menstrual cycle

effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

effects of short-term strenuous endurance exercise on corpus luteum function, 31:949

reduced resting metabolic rate in athletes with menstrual disorders, 31:1250

running and ovulation positively change cancellous bone in premenopausal women, 31:780

Mental retardation

comparison of isokinetic peak force and work parameters in youth with and without, 31:1190

validity of modified aerobic fitness test for adults with, 31:1849

Metabolism

aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855

effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464

effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400

energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242

influence of low and high dietary fat on physical performance in untrained males, 31:149

intermittent running: muscle metabolism in heat and effect of hypohydration, 31:675

metabolic responses associated with deer hunting, 31:1844

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

reduced resting metabolic rate in athletes with menstrual disorders, 31:1250

substrate utilization and glucose turnover during exercise of varying intensities in individuals with NIDDM, 31:82

Metaplasia, enlargement of remaining patella after partial patellectomy in rabbits, 31:502

Methods

accuracy of prediction equations to estimate submaximal oxygen uptake during cycle ergometry: HERITAGE Family Study, 31:183

accuracy of TriTrac-R3D accelerometer to estimate energy expenditure, 31:747

aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855

anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068

bioimpedance assessment of hypohydration, 31:1466

classification of cardiorespiratory fitness without exercise testing, 31:486

cluster-analytical approach toward physical activity and other health related behaviors, 31:605

comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

- comparison of calcaneal ultrasound and DXA in young women, 31:1484
- comparison of methods for analyzing drop jump performance, 31:437
- development of maximal testing protocol for NordicTrack cross-country ski simulator, 31:619
- heart rate turn point reliability and methodological aspects, 31:903
- impact of bone mineral estimates on percent fat estimates from four-component model, 31:1861
- is determination of exercise intensities as percentages of maximal oxygen uptake or maximal heart rate adequate?, 31:1342
- maximal accumulated oxygen deficit must be calculated using 10-min time periods, 31:1346
- measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226
- noninvasive estimation of maximal lactate steady state in trained cyclists, 31:742
- noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580
- North Carolina High School Athletic Injury Study, 31:176
- One-day maximal lactate steady-state assessment protocol for trained runners, 31:1336
- physical activity patterns of African-American women with severe physical disabilities, 31:613
- physiological effects of constant versus variable power during endurance cycling, 31:1472
- power output/heart rate relationship in cycling: test standardization and repeatability, 31:1478
- reliability and comparability of accelerometer as measure of muscular power, 31:897
- reliability of power output during intermittent high-intensity cycling, 31:913
- simple, reliable method of assessing exercise capacity in patients with chronic heart failure, 31:52
- single-leg Wingate test in children: reliability and optimal braking force, 31:1218
- utility of pwc75% as estimate of aerobic power in epidemiological and population-based studies, 31:348
- validity, reliability, and calibration of Tritrac accelerometer as measure of physical activity, 31:908
- validity of modified aerobic fitness test for adults with mental retardation, 31:1849
- validity of predicting mean arterial blood pressure during exercise, 31:1876
- Microgravity**, inflight exercise affects stand test responses after space flight, 31:1755
- Mitogenesis**, differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829
- Modeling**
- comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665
- jumping for distance: control of external force in squat jumps, 31:1196
- racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677
- Mortality**
- effects of physical inactivity and obesity on morbidity and mortality, 31:S646
- overweight and obesity in mortality rate data, 31:S597
- physical activity in prevention and treatment of obesity and its comorbidities, 31:1493
- thinness and weight loss: beneficial or detrimental to longevity?, 31:1118
- Motor disability**
- respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522
- therapeutic value of exercise training in Parkinson's disease, 31:1544
- Muscle**
- adaptation of blood flow during rest to work transition in humans, 31:1019
- adverse events associated with eccentric exercise protocols, 31:1697
- architectural characteristics of muscle in black and white college football players, 31:1448
- bilateral deficit of voluntary quadriceps muscle activation after unilateral ACL tear, 31:1691
- bilateral segmental dystonia in professional tennis player, 31:1085
- comparison of Abshaper and conventionally performed abdominal exercises using surface electromyography, 31:1656
- control of skeletal muscle perfusion at onset of dynamic exercise, 31:1011
- creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763
- creatine supplementation-part II: in vivo magnetic resonance spectroscopy, 31:1770
- dynamics of force and muscle stimulation in human vertical jumping, 31:303
- early phase adaptations of muscle use and strength to isokinetic training, 31:588
- eccentric muscle action increases site-specific osteogenic response, 31:1287
- effects of anabolic steroids on muscle cells of strength-trained athletes, 31:1528
- effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414
- effects of exercise and insulin on insulin signaling proteins in human skeletal muscle, 31:998
- effects of muscle contraction on skeletal muscle blood flow: when is there a muscle pump?, 31:1027
- effects of strength training on endurance performance and muscle characteristics, 31:886
- EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834
- endurance training reduces rate of diaphragm fatigue *in vitro*, 31:1605
- epidemiological patterns of musculoskeletal injuries and physical training, 31:1176
- evidence for restricted muscle blood flow during speed skating, 31:1433
- exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599
- exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987
- intermittent running: muscle metabolism in heat and effect of hypohydration, 31:675
- jumping for distance: control of external force in squat jumps, 31:1196
- localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047
- magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361
- maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638
- muscle activation during tennis volley, 31:846
- muscle blood flow during exercise: limits of reductionism, 31:1036
- muscle control in elite alpine skiing, 31:1065
- muscle coordination and function during cutting movements, 31:294
- muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587
- muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90
- naproxen does not alter indices of muscle damage in resistance-exercise trained men, 31:4
- neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124
- noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580
- performance and muscle fiber adaptations to creatine supplementation and heavy resistance training, 31:1147
- polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293
- preliminary examination of cryotherapy and secondary injury in skeletal muscle, 31:1516
- reliability and comparability of accelerometer as measure of muscular power, 31:897
- reliability of new device to assess oxygen consumption of human respiratory muscles, 31:1076
- shoulder proprioception: latent muscle reaction times, 31:1394
- stance width and bar load effects on leg muscle activity during parallel squat, 31:428
- Muscular dystrophy**, respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522
- Mycardial infarction**
- cardio-respiratory responses to rowing ergometry and treadmill exercise soon after, 31:1721
- heart attacks and lower-limb function in master endurance athletes, 31:1041

Myocardium

effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094
effects of anabolic-androgenic steroids on weight-lifters' myocardium: ultrasonic videodensitometric study, 31:514
Myoglobinuria, adverse events associated with eccentric exercise protocols, 31:1697

N

Naproxen, does not alter indices of muscle damage in resistance-exercise trained men, 31:4

Nasal dilators, European perspective: new dimensions in pulmonary research, 31:S1

National Health and Nutrition

Examination Survey, prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821

Near infrared spectroscopy, muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90

Neovascularization, exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599

Neurology, brain magnetic resonance imaging and neurological changes after a single high altitude climb, 31:969

Neuromuscular disease

respiratory muscle training in: long-term effects on strength and load perception, 31:1522

role of mechanical power estimates in O₂ cost of walking in children with cerebral palsy, 31:1703

Non-Hodgkin's lymphoma, occupational physical activity and, 31:566

Nonsteroidal anti-inflammatory drugs, naproxen does not alter indices of muscle damage in resistance-exercise trained men, 31:4

NordicTrack cross-country ski simulator, development of maximal testing protocol for, 31:619

Norepinephrine

effect of severe exercise on plasma catecholamines in differently trained athletes, 31:560

interval training at maximal oxygen uptake: effects on aerobic performance and overtraining markers, 31:156

Nutrition. See Diet and nutrition

O

Obesity and overweight. See also Body composition; Fat, body

anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068
assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

comorbidities of, 31:S602
contribution of sedentary lifestyle and inactivity to etiology of: current evidence and research issues, 31:S534
economic costs of obesity and inactivity, 31:S663

effect of physical training on total and visceral fat in obese children, 31:143

effective health promotion and clinical care for large people, 31:1141

effects of diet and exercise on density and composition of fat-free mass in obese women, 31:1778

effects of exercise combined with diet therapy on protein utilization in obese children, 31:378

effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619

effects of physical inactivity and obesity on morbidity and mortality, 31:S646
how effective are traditional dietary and exercise interventions for weight loss?, 31:1129

is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:S568

levels of physical activity and inactivity in children and adults in United States: current evidence and research issues, 31:S526

mechanical ventilatory constraints in aging, lung disease, and obesity, 31:S12

mortality rate data, 31:S597
obesity, fitness, and willingness to communicate and health care costs, 31:1535

obesity epidemic in children and adults: current evidence and research issues, 31:S509

overview of determinants of: current evidence and research issues, 31:S515
physical activity and preference for selected macronutrients, 31:S584

physical activity and regulation of food intake, 31:S573

physical activity and weight gain and fat distribution changes with menopause, 31:S564

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

in adulthood, 31:S547

in childhood, 31:S553

consensus statement, 31:S502

current evidence and research issues, 31:S542

dyslipoproteinemias, 31:S609

hypertension, 31:S624

introductory comments for consensus, 31:S498

other morbid conditions and

impairments, 31:S635

preface to roundtable, 31:S497

thrombogenic profile, 31:S631

weight gain associated with

pregnancy, 31:S560

physical fitness and clustering of risk factors associated with the metabolic syndrome, 31:287

thinness and weight loss: beneficial or detrimental to longevity?, 31:1118

Occupational physical activity, non-Hodgkin's lymphoma and, 31:566

Older adults. See also Aging

aerobic fitness in population of independently living men and women aged 55-86 years, 31:1813

comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

differential leukocytosis and lymphocyte mitogenic response to acute maximal exercise in the young and old, 31:829

exercise cardiac function in young through elderly endurance trained women, 31:684

exercise training and heart rate

variability in older people, 31:816

exercise training guidelines for the elderly, 31:12

maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638

physical activity and progressive change in body composition with aging, 31:S590

physical activity and weight gain and fat distribution changes with menopause, 31:S564

prescription of resistance training for health and disease, 31:38

relationship of physical activity and fitness to lipid and lipoprotein (a) in elderly subjects, 31:1183

validation of PASE in older adults with knee pain and physical disability, 31:627

Opioid peptides, exercise and recovery responses of adrenal medullary neurohormones to heavy resistance

exercise, 31:554

Orthostasis, inflight exercise affects stand test responses after space flight, 31:1755

Orthotics

prophylactic ankle stabilizers affect ankle joint kinematics during drop landings, 31:702

shoe inserts and orthotics for sport and physical activities, 31:S421

Os trigonum syndrome, with flexor

hallucis longus tenosynovitis in

professional football referee, 31:S493

Osteoarthritis

comorbidities of overweight and obesity, 31:S602

heart attacks and lower-limb function in

master endurance athletes, 31:1041

physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Osteoporosis, effects of progressive resistance training on bone density, 31:25

Outcome measures, laxity, instability, and functional outcome after anterior cruciate

ligament injury: copers versus noncopers, 31:210

Overtraining

etiologic factors associated with Achilles tendinitis in runners, 31:1374

interval training at maximal oxygen

uptake: effects on aerobic performance

and overtraining markers, 31:156

Overweight. See Obesity and overweight

Oxidative stress

effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409

exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987

Oxygen uptake

accuracy of prediction equations to estimate submaximal oxygen uptake during cycle ergometry: HERITAGE Family Study, 31:183

cardio-respiratory responses to rowing ergometry and treadmill exercise soon

after myocardial infarction, 31:1721

cardiorespiratory responses to arm

cranking and electrical stimulation leg

cycling in people with paraplegia, 31:822

cardiovascular dynamics at onset of exercise, 31:1005

circuit weight training and its effects on excess postexercise oxygen consumption, 31:1613

classification of cardiorespiratory fitness without exercise testing, 31:486

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

comparison of accelerometers with oxygen consumption in older adults during exercise, 31:171

disproportionate increase in oxygen uptake coincident with lactate threshold during treadmill exercise, 31:1299

effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

effects of posture on left ventricular diastolic filling during exercise, 31:1564

effects of proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460

increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570

maximal accumulated oxygen deficit must be calculated using 10-min time periods, 31:1346

metabolic responses associated with deer hunting, 31:1844

muscle oxygenation trends during constant work rate cycle exercise in men and women, 31:90

oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

physiological effects of constant versus variable power during endurance cycling, 31:1472

physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

reliability of new device to assess oxygen consumption of human respiratory muscles, 31:1076

reliability of submaximal exercise tests in patients with COPD, 31:1257

reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623

responses to training in cross-country skiers, 31:1211

role of mechanical power estimates in O_2 cost of walking in children with cerebral palsy, 31:1703

role of right ventricle during hypobaric hypoxic exercise: insights from patients after Fontan operation, 31:269

Oxygen uptake, maximal

aerobic fitness in population of independently living men and women aged 55–86 years, 31:1813

degree of arterial desaturation in normoxia influences maximal oxygen uptake decline in mild hypoxia, 31:658

development of maximal testing protocol for NordicTrack cross-country ski simulator, 31:619

effect of hand paddles on anaerobic energy release during supramaximal swimming, 31:729

effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892

exercise gas exchange responses in differentiation of pathologic and

physiologic left ventricular hypertrophy, 31:1237

exercise performance in those having Parkinson's disease and healthy normals, 31:761

induced hypervolemia, cardiac function, maximal oxygen uptake, and performance of elite cyclists, 31:800

interval training at maximal oxygen uptake: effects on aerobic performance and overtraining markers, 31:156

is determination of exercise intensities as percentages of maximal oxygen uptake or maximal heart rate adequate?, 31:1342

level ground and uphill cycling ability in professional road cycling, 31:878

linkage between muscle-specific CK gene marker and maximal oxygen uptake in HERITAGE Family Study, 31:698

measurement from two different laboratory protocols in runners and squash players, 31:1226

neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124

utility of pwc75% as estimate of aerobic power in epidemiological and population-based studies, 31:348

P

Pain

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

investigation of side pain "stitch" induced by running after fluid ingestion, 31:1169

low back strengthening for prevention and treatment of low back pain, 31:18

validation of PASE in older adults with knee pain and physical disability, 31:627

Paralysis, cardiorespiratory responses to arm cranking and electrical stimulation leg cycling in people with paraplegia, 31:822

Parkinson's disease

exercise performance in health normals and in, 31:761

therapeutic value of exercise training in, 31:1544

Patella

development and clinical application of kinematic MRI of patellofemoral joint using an extremity MR system, 31:788

effect of bracing on patellar kinematics in patients with patellofemoral joint pain, 31:1714

enlargement of remaining patella after partial patellectomy in rabbits, 31:502

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

Peripheral arteries

exercise stimulates neovascularization in occluded muscle without affecting bFGF content, 31:1599

smoking history related to free-living daily physical activity in claudicants, 31:980

Phosphates, noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

Physical activity. See also Exercise

activity patterns of African-American women with severe physical disabilities, 31:613

assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

childhood and adolescent physical activity patterns and adult physical activity, 31:118

daily primary school physical education: effects on physical activity during adult life, 31:111

effects of physical activity on insulin action and glucose tolerance in obesity, 31:S619

levels of physical activity and inactivity in children and adults in United States: current evidence and research issues, 31:S526

and preference for selected macronutrients, 31:S584

in prevention and treatment of obesity and its comorbidities, 31:1493

in adulthood, 31:S547

in childhood, 31:S553

consensus statement, 31:S502

current evidence and research issues, 31:S542

dyslipoproteinemias, 31:S609

hypertension, 31:S624

introductory comments for consensus, 31:S498

other morbid conditions and impairments, 31:S635

preface to roundtable, 31:S497

thrombogenic profile, 31:S631

weight gain associated with pregnancy, 31:S560

and progressive change in body composition with aging, 31:S590

and regulation of food intake, 31:S573

relationship of physical activity and fitness to lipid and lipoprotein (a) in elderly subjects, 31:1183

smoking history related to free-living daily physical activity in claudicants, 31:980

and weight gain and fat distribution changes with menopause, 31:S564

Physical Activity for Total Health (PATH) Study, 31:1307

Physical activity questionnaires

assessment of physical activity level in relation to obesity: current evidence and research issues, 31:S522

comparison of four habitual physical activity questionnaires in girls aged 7–15 yr, 31:421

prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988–1994, 31:1821

validation of PASE in older adults with knee pain and physical disability, 31:627

Physical education, daily primary school physical education: effects on physical activity during adult life, 31:111

Physical examination, comprehensive and cost-effective preparticipation exam implemented on World Wide Web, 31:1727

Physical fitness and performance

comparing cycling world hour records, 1967–1996: modeling with empirical data, 31:1665

comparison between physiological response to roller skiing and in-line skating in biathletes, 31:595

creatine supplementation-part I: performance, clinical chemistry, and muscle volume, 31:1763

design and analysis of research on sport performance enhancement, 31:472

early phase adaptations of muscle use and strength to isokinetic training, 31:588

effect of branched-chain amino acids (BCAA), glucose, and glucose plus BCAA on endurance performance in rats, 31:583

effect of hand paddles on anaerobic energy release during supramaximal swimming, 31:729

effect of physical training on total and visceral fat in obese children, 31:143

effect of preexercise meal on time to fatigue during prolonged cycling exercise, 31:464

effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892

effects of ballistic training on preseason preparation of elite volleyball players, 31:323

effects of cycling alone or in a sheltered position on subsequent running performance during triathlon, 31:599

effects of different interval-training programs on cycling time-trial performance, 31:736

effects of proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460

effects of strength training on endurance performance and muscle characteristics, 31:886

exercise performance in those having Parkinson's disease and healthy normals, 31:761

influence of exercise training on physiological and performance changes with weight loss in men, 31:1320

influence of low and high dietary fat on physical performance in untrained males, 31:149

interval training at maximal oxygen uptake: effects on aerobic performance and overtraining markers, 31:156

level ground and uphill cycling ability in professional road cycling, 31:878

low back pain in elite rhythmic gymnasts, 31:1686

marathons in altitude, 31:723

maximal strength training improves work economy in trained female cross-country skiers, 31:870

metabolic responses associated with deer hunting, 31:1844

muscle control in elite alpine skiing, 31:1065

oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

physical and psychological predictors of exercise dosage in healthy adults, 31:1060

physical performance during rehabilitation in persons with spinal cord injuries, 31:1330

physical work capacity after 7 weeks of wheelchair training: effect of intensity in able-bodied subjects, 31:331

physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

pre-exercise carbohydrate meals: application of glycemic index, 31:164

racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677

responses to training in cross-country skiers, 31:1211

sport performance enhancement: design and analysis of research (letter), 31:755

stability of blood lactate-heart rate relationship in competitive athletes, 31:578

stroking parameters in top level swimmers with a disability, 31:1839

Physical training

cardiopulmonary and CD4 cell changes in response to exercise training in early symptomatic HIV infection, 31:973

effect of myocardial ischaemia on left ventricular function and adaptability to exercise training, 31:1094

effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892

epidemiological patterns of musculoskeletal injuries and physical training, 31:1176

exercise training and heart rate variability in older people, 31:816

exercise training guidelines for the elderly, 31:12

exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987

influence on physiological and performance changes with weight loss in men, 31:1320

maximal strength training improves work economy in trained female cross-country skiers, 31:870

myocardial diastolic function and exercise, 31:1741

objective effects of 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102

oxygen uptake, heart rate, and blood lactate responses during and following karate training, 31:342

physical work capacity after 7 weeks of wheelchair training: effect of intensity in able-bodied subjects, 31:331

physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205

prescription of resistance training for health and disease, 31:38

resistance training for health and disease: introduction to symposium, 31:10

responses to training in cross-country skiers, 31:1211

therapeutic value of exercise training in Parkinson's disease, 31:1544

Piano training, EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834

Plasma volume, bioimpedance assessment of hypohydration, 31:1466

Plasminogen activator inhibitor-1, physical activity in prevention and treatment of thrombotic profile in the obese, 31:5631

Platelet aggregation, physical activity in prevention and treatment of thrombotic profile in the obese, 31:5631

Plyometrics, comparison of methods for analyzing drop jump performance, 31:437

Posture, effects on left ventricular diastolic filling during exercise, 31:1564

Power

comparing cycling world hour records, 1967-1996: modeling with empirical data, 31:1665

cross-validation of three jump power equations, 31:572

EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834

lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558

level ground and uphill cycling ability in professional road cycling, 31:878

neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124

physical work capacity after 7 weeks of wheelchair training: effect of intensity in able-bodied subjects, 31:331

physiological effects of constant versus variable power during endurance cycling, 31:1472

power output/heart rate relationship in cycling: test standardization and repeatability, 31:1478

racing cyclist power requirements in 4000-m individual and team pursuits, 31:1677

reliability and comparability of accelerometer as measure of muscular power, 31:897

reliability of power output during intermittent high-intensity cycling, 31:913

role of mechanical power estimates in O_2 cost of walking in children with cerebral palsy, 31:1703

Pregnancy

physical activity and prevention and treatment of weight gain associated with, 31:S560

physical conditioning effects on fetal heart rate responses to graded maternal exercise, 31:792

Preparticipation examination, comprehensive and cost-effective, implemented on World Wide Web, 31:1727

Prevention

of dehydration in children with cystic fibrosis who exercise in the heat, 31:774

low back strengthening for prevention and treatment of low back pain, 31:18

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

consensus statement, 31:S502

current evidence and research issues, 31:S542

dyslipoproteinemias, 31:S609

hypertension, 31:S624

introductory comments for consensus, 31:S498

other morbid conditions and impairments, 31:S635

preface to roundtable, 31:S497

thrombotic profile, 31:S631

weight gain associated with pregnancy, 31:S560

Proenkephalin, exercise and recovery responses of adrenal medullary neurohormones to heavy resistance exercise, 31:554

Prolactin

hormonal response to *d*-fenfluramine challenge in trained and sedentary men, 31:547

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Proprioception

benefits of wearing compression sleeve after anterior cruciate ligament reconstruction, 31:368

localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047

Prostate cancer, physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

Protective equipment, head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

Protein

effects of dietary protein on enzyme activity following exercise-induced muscle injury, 31:414

effects of exercise combined with diet therapy on protein utilization in obese children, 31:378

Psychobiology and social sciences

biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717

influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456

is sleep disturbed by vigorous late-night exercise?, 31:864

physical and psychological predictors of exercise dosage in healthy adults, 31:1060

physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205

quality of life and anxiety in phase II cardiac rehabilitation program, 31:216

Pulmonary edema

effect of repeat exercise on pulmonary diffusing capacity and exercise-induced arterial hypoxemia in trained athletes, 31:99

high altitude, 31:S23

Pulmonary function. See also Lung disease

effect of repeat exercise on pulmonary diffusing capacity and exercise-induced arterial hypoxemia in trained athletes, 31:99

respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522

Pulmonary hypertension, cardiopulmonary limitations to exercise in restrictive lung disease, 31:S28

Q

Q-angle, influences on variability of lower extremity coordination during running, 31:1313

Quadriceps muscle

bilateral deficit of voluntary quadriceps muscle activation after unilateral ACL tear, 31:1691

maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638

Quality of life

and anxiety in phase II cardiac rehabilitation program, 31:216

physical activity in prevention and treatment of other morbid conditions and impairments associated with obesity, 31:S635

R

Race/ethnicity

architectural characteristics of muscle in black and white college football players, 31:1448

blood pressure responses to acute static and dynamic exercise in three racial groups, 31:1793

physical activity patterns of African-American women with severe physical disabilities, 31:613

Radiography

enlargement of remaining patella after partial patellectomy in rabbits, 31:502

talocrural and subtalar joint instability after lateral ankle sprain, 31:1501

Ratings of perceived exertion

cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721

increased fat availability enhances capacity of trained individuals to perform prolonged exercise, 31:1570

physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

Recovery from exercise

exercise and recovery responses of adrenal medullary neurohormones to heavy resistance exercise, 31:554

physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205

plasma lactate decline during passive recovery from high-intensity exercise, 31:670

Rehabilitation

benefits of wearing compression sleeve after anterior cruciate ligament reconstruction, 31:368

cardiorespiratory responses to arm cranking and electrical stimulation leg cycling in people with paraplegia, 31:822

effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery, 31:634

lateral ankle sprains. part 2: treatment and rehabilitation with emphasis on athlete, 31:S438

low back strengthening for prevention and treatment of low back pain, 31:18

magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361

physical performance during rehabilitation in persons with spinal cord injuries, 31:1330

physical performance in persons with spinal cord injuries after discharge from, 31:1111

quality of life and anxiety in phase II cardiac rehabilitation program, 31:216

Relaxation training, biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717

Renal function, long-term oral creatine supplementation does not impair renal function in healthy athletes, 31:1108

Research issues

assessment of physical activity level in relation to obesity, 31:S522

comorbidities of overweight and obesity, 31:S602

contribution of sedentary lifestyle and inactivity to etiology of overweight and obesity, 31:S534

design and analysis of research on sport performance enhancement, 31:472

effects of physical inactivity and obesity on morbidity and mortality, 31:S646

levels of physical activity and inactivity in children and adults in United States, 31:S526

obesity epidemic in children and adults, 31:S509

overview of determinants of obesity and overweight, 31:S515

overweight and obesity in mortality rate data, 31:S597

physical activity in prevention and treatment of hypertension in the obese, 31:S624

physical activity in prevention and treatment of thrombotic profile in the obese, 31:S631

physical activity in prevention of obesity, 31:S542

physical activity in treatment of adulthood overweight and obesity, 31:S547

physical activity in treatment of childhood overweight and obesity, 31:S553

quantitative MR measures of three-dimensional patellar kinematics as research and diagnostic tool, 31:1399

sport performance enhancement: design and analysis of research (letter), 31:755

Resistance exercise

acute responses to resistance training and safety, 31:31

circuit weight training and its effects on excess postexercise oxygen consumption, 31:1613

early phase adaptations of muscle use and strength to isokinetic training, 31:588

effects of ballistic training on preseason preparation of elite volleyball players, 31:323

effects of progressive resistance training on bone density, 31:25

effects of strength training on endurance performance and muscle characteristics, 31:886

exercise training guidelines for the elderly, 31:12

heavy, exercise and recovery responses of adrenal medullary neurohormones to, 31:554

influence of exercise training on physiological and performance changes with weight loss in men, 31:1320

influence of resistance exercise of different intensities on state anxiety and blood pressure, 31:456

low back strengthening for prevention and treatment of low back pain, 31:18

lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise, 31:74

maximal strength training improves work economy in trained female cross-country skiers, 31:870

naproxen does not alter indices of muscle damage in resistance-exercise trained men, 31:4

objective effects of 6 months' endurance and strength training program in outpatients with congestive heart failure, 31:1102

performance and muscle fiber adaptations to creatine supplementation and heavy resistance training, 31:1147

prescription of resistance training for health and disease, 31:38

quantity and quality of exercise for healthy adults (letter), 31:916

resistance training for health and disease: introduction to symposium, 31:10
stance width and bar load effects on leg muscle activity during parallel squat, 31:428

validation of Wilks powerlifting formula, 31:1869

Respiratory exchange ratio

cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721

measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226

reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623

Respiratory muscles

endurance training reduces rate of diaphragm fatigue *in vitro*, 31:1605

human, reliability of new device to assess oxygen consumption of, 31:1076

respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522

Respiratory tract infection, salivary IgA levels and infection risk in elite swimmers, 31:67

Rhabdomyolysis, adverse events associated with eccentric exercise protocols, 31:1697

Rotator cuff

magnetic resonance imaging evaluation of muscle usage associated with three exercises for rehabilitation of, 31:1361

shoulder proprioception: latent muscle reaction times, 31:1394

Rowing, cardio-respiratory responses to rowing ergometry and treadmill exercise soon after myocardial infarction, 31:1721

Running

aerobic and anaerobic energy conversion during high-intensity exercise, 31:1855

analysis of hip joint loading during walking, running, and skiing, 31:131

asynchrony between subtalar and knee joint function during, 31:1645

biofeedback and relaxation techniques improve running economy in sub-elite long distance runners, 31:717

carbohydrate-electrolyte ingestion during intermittent high-intensity running, 31:1280

effect of incremental test protocol on lactate minimum speed, 31:837

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

effects of 4-wk training using V_{max}/T_{max} on maximal oxygen uptake and performance in athletes, 31:892

effects of acute exercise on plasma erythropoietin levels in trained runners, 31:543

effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

energy cost of horizontal walking and running in adolescents, 31:311

etiologic factors associated with Achilles tendinitis in runners, 31:1374

ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088

influence of high and low glycemic index meals on endurance running capacity, 31:393

intermittent: muscle metabolism in heat and effect of hypohydration, 31:675

investigation of side pain "stitch" induced by running after fluid ingestion, 31:1169

marathons in altitude, 31:723

measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226

neuroendocrine responses to, in women after zinc and vitamin E supplementation, 31:536

neuromuscular characteristics and muscle power as determinants of 5-km running performance, 31:124

one-day maximal lactate steady-state assessment protocol for trained runners, 31:1336

plantar loading and cadence alterations with fatigue, 31:1828

plasma-electrolytes in natives to hypoxia after marathon races at different altitudes, 31:1406

prediction of speed and incline in outdoor running in humans using accelerometry, 31:1053

Q-angle influences on variability of lower extremity coordination during running, 31:1313

regulation of MAC-1 (CD11b/CD18) expression on circulating granulocytes in endurance runners, 31:362

running and ovulation positively change cancellous bone in premenopausal women, 31:780

short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414

three-dimensional kinetic analysis of: significance of secondary planes of motion, 31:1629

ventilatory responses during experimental cycle-run transition in triathletes, 31:1422

S

Safety issues

acute responses to resistance training and safety, 31:31

head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

Salivary IgA levels, infection risk in elite swimmers and, 31:67

Sedentary behavior

contribution of sedentary lifestyle and inactivity to etiology of overweight and obesity: current evidence and research issues, 31:S534

economic costs of obesity and inactivity, 31:S663

effects of physical inactivity and obesity on morbidity and mortality, 31:S646

hormonal response to *d*-fenfluramine challenge in trained and sedentary men, 31:547

levels of physical activity and inactivity in children and adults in United States: current evidence and research issues, 31:S526

prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821

Seven-day exercise record

intraindividual variability and reliability in, 31:1619

Shoe inserts, and orthotics for sport and physical activities, 31:S421

Shoulder

localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047

magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361

shoulder proprioception: latent muscle reaction times, 31:1394

Skating

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

evidence for restricted muscle blood flow during speed skating, 31:1433

Skiing

analysis of hip joint loading during walking, running, and skiing, 31:131

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

development of maximal testing protocol for NordicTrack cross-country ski simulator, 31:619

maximal strength training improves work economy in trained female cross-country skiers, 31:870

muscle control in elite alpine skiing, 31:1065

responses to training in cross-country skiers, 31:1211

Sleep, is sleep disturbed by vigorous late-night exercise?, 31:864

Smoking

cluster-analytical approach toward physical activity and other health related behaviors, 31:605

smoking history related to free-living daily physical activity in claudicants, 31:980

Soccer

muscle glycogen degradation during simulation of fatiguing soccer match in elite soccer players examined noninvasively by ^{13}C -MRS, 31:1587

noninvasive measurement of muscle high-energy phosphates and glycogen concentrations in elite soccer players by ^{31}P - and ^{13}C -MRS, 31:1580

stress fracture of proximal fibula in young soccer player, 31:925

Socioeconomic status, prevalence of physical inactivity and its relation to social class in U.S. adults: results from Third National Health and Nutrition Examination Survey, 1988-1994, 31:1821

Sodium, fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386

Soft-tissue mobilization therapy, fibroblast responses to variation in soft tissue mobilization pressure, 31:531

Space flight, in-flight exercise affects stand test responses after, 31:1755

Speed
evidence for restricted muscle blood flow during speed skating, 31:1433
prediction of speed and incline in outdoor running in humans using accelerometry, 31:1053

Spinal cord injury
cardiorespiratory responses to arm cranking and electrical stimulation leg cycling in people with paraplegia, 31:822
discuss throwing performances and medical classification of wheelchair athletes, 31:1272
physical performance during rehabilitation in persons with, 31:1330
physical performance in persons with spinal cord injuries after discharge from rehabilitation, 31:1111

Spinal muscular atrophy, respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522

Squash, measurement of maximal oxygen uptake from two different laboratory protocols in runners and squash players, 31:1226

Strength
early phase adaptations of muscle use and strength to isokinetic training, 31:588
effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788
low back strengthening for prevention and treatment of low back pain, 31:18
maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638
respiratory muscle training in neuromuscular disease: long-term effects on strength and load perception, 31:1522

Strength training. See Resistance exercise

Stress fracture
epidemiological patterns of musculoskeletal injuries and physical training, 31:1176
ground reaction forces, bone characteristics, and tibial stress fracture in male runners, 31:1088
of proximal fibula in young soccer player, 31:925

Submaximal exercise testing
maximal accumulated oxygen deficit must be calculated using 10-min time periods, 31:1346
reliability in patients with COPD, 31:1257

Subtalar joint
asynchrony between subtalar and knee joint function during running, 31:1645
talocrural and subtalar joint instability after lateral ankle sprain, 31:1501

Superoxide dismutase, exercise training-induced alterations in skeletal muscle antioxidant capacity, 31:987

Swelling, adverse events associated with eccentric exercise protocols, 31:1697

Swimming
effect of hand paddles on anaerobic energy release during supramaximal swimming, 31:729
physiological and psychometric variables for monitoring recovery during tapering for major competition, 31:1205
salivary IgA levels and infection risk in elite swimmers, 31:67
stroking parameters in top level swimmers with a disability, 31:1839

T

Tai Chi, effect on cardiorespiratory function in patients with coronary artery bypass surgery, 31:634

Technical notes
evaluation of BOD POD[®] for assessing body fat in collegiate football players, 31:1050
reliability of new device to assess oxygen consumption of human respiratory muscles, 31:1076

Tendon injuries
clinical nomenclature for (letter), 31:352
etiologic factors associated with Achilles tendinitis in runners, 31:1374
imaging of foot and ankle in injured athlete, 31:5412
os trigonum syndrome with flexor hallucis longus tenosynovitis in professional football referee, 31:5493
peroneal tendon subluxation in athletes, 31:5487
ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

Tennis
bilateral segmental dystonia in professional tennis player, 31:1085
changes in bone mineral content with decreased training in competitive young adult tennis players and controls: prospective 4-yr follow-up, 31:646
movement characteristics of tennis volley, 31:855
muscle activation during tennis volley, 31:846

Testosterone
effects of dehydroepiandrosterone vs androstenedione supplementation in men, 31:1788
temporal effects of testosterone propionate injections on serum lipoprotein concentrations in rats, 31:664

Tetany, polycythemia decreases fatigue in tetanic contractions of canine skeletal muscle, 31:1293

Thermoregulation. See also Heat effects
effects of precooling on thermoregulation during subsequent exercise, 31:251
fluid ingestion does not influence intense 1-h exercise performance in mild environment, 31:386
preventing dehydration in children with cystic fibrosis who exercise in the heat, 31:774
recognizing and treating common cold-induced injury in outdoor sports, 31:1367

Thrombogenesis

physical activity in prevention and treatment of obesity and its comorbidities, 31:1493

physical activity in prevention and treatment of thrombotic profile in the obese, 31:5631

Thymocytes, antioxidant administration inhibits exercise-induced thymocyte apoptosis in rats, 31:1594

Triathletes
effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599
effects of precooling on thermoregulation during subsequent exercise, 31:251
hematocrits of triathletes: is monitoring useful?, 31:372
hyponatremia in ultradistance triathletes, 31:809
ventilatory responses during experimental cycle-run transition in, 31:1422

Triglycerides
physical activity for preventing and treatment obesity-related dyslipoproteinemias, 31:5609
short-term effects of exercise on plasma very low density lipoproteins and fatty acids, 31:522

TriTrac accelerometer
accuracy of TriTrac-R3D accelerometer to estimate energy expenditure, 31:747
validity, reliability, and calibration of, as measure of physical activity, 31:908

Troponin, short-term effects of marathon running: no evidence of cardiac dysfunction, 31:1414

U

Ultrasonography

architectural characteristics of muscle in black and white college football players, 31:1448
available period and kind of exercise for increasing osteo sono assessment index in, 31:1709
comparison of calcaneal ultrasound and DXA in young women, 31:1484
ultrasound-guided percutaneous longitudinal tenotomy for management of patellar tendinopathy, 31:1509

Upper body
bilateral segmental dystonia in professional tennis player, 31:1085
effect of hand paddles on anaerobic energy release during supramaximal swimming, 31:729
EMG power spectrum analysis of first dorsal interosseous muscle in pianists, 31:1834
localized muscle fatigue decreases acuity of movement sense in human shoulder, 31:1047
magnetic resonance imaging evaluation of muscle usage associated with three exercises for rotator cuff rehabilitation, 31:1361
movement characteristics of tennis volley, 31:855
muscle activation during tennis volley, 31:846
physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

shoulder proprioception: latent muscle reaction times, 31:1394
ulnar variance and skeletal maturity of radius and ulna in female gymnasts, 31:653

V

Ventilation

aerobic fitness in population of independently living men and women aged 55–86 years, 31:1813

comparison between physiological responses to roller skiing and in-line skating in biathletes, 31:595

effects of cycling alone or in sheltered position on subsequent running performance during triathlon, 31:599

effects of proposed challenge on effort sense and cardiorespiratory responses during exercise, 31:1460

European perspective: new dimensions in pulmonary research, 31:S1

influence of high-intensity exercise training on ventilatory response to exercise in patients with reduced ventricular function, 31:929

mechanical ventilatory constraints in aging, lung disease, and obesity, 31:S12

metabolic responses associated with deer hunting, 31:1844

physiological responses to upper body exercise on arm and modified leg ergometer, 31:1453

reliability of new device to assess oxygen consumption of human respiratory muscles, 31:1076

reproducibility of maximal exercise test data in HERITAGE Family Study, 31:1623

ventilatory response to erect and supine exercise, 31:1429

ventilatory responses during experimental cycle-run transition in triathletes, 31:1422

ventilatory responses to dynamic exercise elicited by intramuscular sensors, 31:277

ventilatory responses to exercise in patients with asymptomatic left ventricular dysfunction, 31:942

Ventricular late potentials, lack of correlation with left ventricular mass in top-level male athletes, 31:359

Videodensitometry, study of effects of anabolic-androgenic steroids on weight lifters' myocardium, 31:514

Vitamins

effect of vitamin B-6 supplementation on fuels, catecholamines, and amino acids during exercise in men, 31:400

neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536

Volleyball, effects of ballistic training on preseason preparation of elite volleyball players, 31:323

W

Walking

analysis of hip joint loading during walking, running, and skiing, 31:131

energy cost of horizontal walking and running in adolescents, 31:311

gastrointestinal symptoms during long-distance walking, 31:767

role of mechanical power estimates in O_2 cost of walking in children with cerebral palsy, 31:1703

Weight, body. See also Obesity and overweight

effective health promotion and clinical care for large people, 31:1141

how effective are traditional dietary and exercise interventions for weight loss?, 31:1129

influence of exercise training on physiological and performance changes with weight loss in men, 31:1320

is abdominal fat preferentially reduced in response to exercise-induced weight loss?, 31:S568

quest for ideal weight: costs and consequences, 31:1135

thinness and weight loss: beneficial or detrimental to longevity?, 31:1118

weight and diet concerns in Finnish female and male athletes, 31:229

weight control in wrestling: eating disorders or disordered eating?, 31:1382

Weight lifters. See also Resistance exercise

effects of anabolic-androgenic steroids on myocardium of: ultrasonic

videodensitometric study, 31:514

effects of anabolic steroids on muscle cells of strength-trained athletes, 31:1528

maximal motor unit discharge rates in quadriceps muscles of older weight lifters, 31:1638

validation of Wilks powerlifting formula, 31:1869

Wheelchair use

discus throwing performances and medical classification of wheelchair athletes, 31:1272

physical performance during rehabilitation in persons with spinal cord injuries, 31:1330

physical performance in persons with spinal cord injuries after discharge from rehabilitation, 31:1111

physical work capacity after 7 weeks of wheelchair training: effect of intensity in able-bodied subjects, 31:331

Wingate test

energy metabolism during anaerobic exercise in children with cystic fibrosis and asthma, 31:1242

single-leg Wingate test in children: reliability and optimal braking force, 31:1218

Women. See also Gender differences

abnormal eating behaviors in military women, 31:1265

aerobic fitness in population of independently living men and women aged 55–86 years, 31:1813

anthropometry and bioelectrical impedance inconsistently predicts fatness in women with regional adiposity, 31:1068

available period and kind of exercise for increasing osteo sono assessment index in, 31:1709

comparison of calcaneal ultrasound and DXA in young women, 31:1484

does exercise intensity or diet influence lactic acid accumulation in breast milk?, 31:105

effect of exercise during follicular and luteal phases on indices of oxidative stress in healthy women, 31:409

effect of prolonged exercise on lipid peroxidation in eumenorrheic female runners, 31:1390

effects of short-term strenuous endurance exercise on corpus luteum function, 31:949

effects of strength training on endurance performance and muscle characteristics, 31:886

exercise cardiac function in young through elderly endurance trained women, 31:684

head and face injuries in scholastic women's lacrosse with and without eyewear, 31:938

knee joint kinematics during sidestep cutting maneuver: potential for injury in women, 31:959

lean body mass and leg power best predict bone mineral density in adolescent girls, 31:1558

low back pain in elite rhythmic gymnasts, 31:1686

maximal strength training improves work economy in trained female cross-country skiers, 31:870

physical activity and prevention and treatment of weight gain associated with pregnancy, 31:S560

physical activity and weight gain and fat distribution changes with menopause, 31:S564

Physical Activity for Total Health (PATH) Study, 31:1307

physical activity patterns of African-American women with severe physical disabilities, 31:613

physical conditioning effects on fetal heart rate responses to graded maternal exercise, 31:792

reduced resting metabolic rate in athletes with menstrual disorders, 31:1250

running and ovulation positively change cancellous bone in premenopausal women, 31:780

systolic and diastolic cardiac function time intervals and exercise capacity in, 31:258

ulnar variance and skeletal maturity of radius and ulna in female gymnasts, 31:653

weight and diet concerns in Finnish female and male athletes, 31:229

World Wide Web, comprehensive and cost-effective preparticipation exam implemented on, 31:1727

Wrestling, weight control in wrestling: eating disorders or disordered eating?, 31:1382

Z

Zinc, neuroendocrine responses to running in women after zinc and vitamin E supplementation, 31:536